



HERST & ASSOCIATES, INC.®

Global Presence  
Personal Attention

Mr. Dan Wall  
U. S. Environmental Protection Agency  
Region VII  
901 N 5<sup>th</sup> St  
Kansas City, Kansas 66115

0714

Site:	West Lake Landfill
ID:	MDN09900932
Break:	10.0
Other:	3-9-04

40241282

March 9, 2004



SUPERFUND RECORDS

Dear Mr. Wall:

**Monthly Progress Report – February 2004,  
West Lake (Bridgeton) Landfill, Operable Unit 2 RI/FS**

On behalf of Laidlaw Waste Systems, Inc. (Laidlaw), Herst & Associates, Inc. has prepared the following progress report in accordance with Section XIII, Paragraph 39 of the Administrative Order on Consent (Consent Order), EPA Docket No. VII-94-F-0025. The progress report describes activities conducted in February 2004.

**I. ACTIONS TAKEN TO COMPLY WITH THE CONSENT ORDER**

A monthly progress report was submitted to EPA.

During an October 7, 2003 meeting, US EPA and the Missouri Department of Natural Resources (MDNR) requested groundwater sampling to provide updated data supplemental to the remedial investigation sampling previously conducted in 1997. In response to the request, a November 12, 2003 letter proposal was submitted, which described the wells to be sampled and the analyses to be performed. The November 12, 2003 letter indicated that the supplemental sampling would include landfill detection monitoring wells that are sampled on a semi-annual basis as part of the landfill's environmental compliance, plus selected additional alluvial wells near the boundary of Operable Unit 2. As described in the November 12 letter, two rounds of supplemental sampling were proposed. The first sampling event was proposed for November/December 2003, and the second sampling event was proposed for May/June 2004. The primary goals of the sampling events are to provide current groundwater quality data and to determine if current groundwater quality is similar to the results previously obtained during 1997 as part of the OU-2 remedial investigation.

The supplemental sampling was verbally approved by EPA on November 13. Based on a December 18, 2003 electronic mail message from you to Herst & Associates, Inc, the MDNR approved the supplemental sampling on or about December 18.

Detection monitoring wells were sampled on November 20 and 21, 2003, consistent with the landfill's environmental compliance schedule that specifies semi-annual sampling in November of each year. Monitoring well designations include, from shallow to deep, "-AS" (alluvial), "-SS" (St. Louis Formation), and "-SD" (Salem Formation). For wells not part of landfill detection monitoring, four of

five supplemental alluvial groundwater samples were collected over the period December 11 through December 15, 2003 to meet the proposed November/December sampling period and in anticipation of MDNR approval. The fifth supplemental groundwater sampling point (PZ-302-AS) was dry during December, but had sufficient water in early January to allow sample collection on January 11 and 12, 2004. Figure 1 illustrates the locations of the wells included in the November/December 2003 sampling event.

#### *Detection Monitoring Wells*

Table 1 includes a comparison of November 2003 detection monitoring well results to data collected during the remedial investigation. Note that the analytical reporting limits for the remedial investigation in 1997 were in many cases significantly lowered compared to typical reporting limits, to provide data specific to risk assessment purposes. As described in the November 12, 2003 letter, standard laboratory detection limits were requested for the November/December 2003 sampling event. Given the goals of the supplemental sampling, which include ascertaining if the current groundwater quality is generally similar to the 1997 groundwater quality, changes in detection limits in 2003 compared to 1997 do not affect the ability to draw meaningful conclusions.

The analytical laboratory data package for the November 2003 detection monitoring event has previously been forwarded to the MDNR – Solid Waste Division, and is therefore not reproduced as part of this submittal. As described above, remedial investigation data from February and May 1997, where available, are used as a basis for comparison. Selected detection monitoring wells were not sampled during February and May 1997 as part of the remedial investigation; for these wells, August and November 1997 data are used as a basis for comparison. Table 1 includes only those parameters that had a detectable concentration in at least one of the samples collected during the November 2003 event or the 1997 comparison events.

Only one well, PZ-114-AS, yielded detectable concentrations of volatile organic compounds in November 2003. PZ-114-AS has apparently been impacted by an off-site source. PM Resources, Inc. is located across St. Charles Rock Road to the north of Bridgeton Landfill and upgradient of PZ-114-AS. According to the document titled "RCRA Operation & Maintenance Groundwater Monitoring Field Audit Report (Report)" compiled by PM Resources, Inc. and submitted on March 12, 2003 to the MDNR-Air and Land Protection Division-Hazardous Waste Program, the site is currently conducting a Groundwater Compliance Monitoring Program as part of MDNR's agreement with the US EPA. According to the Report mentioned above, PM Resources is a facility that produces a wide variety of animal health care products including pharmaceuticals, medical feeds, rodenticides, sanitizers, cleaners, and pesticide products. The facility has been producing these types of products since 1970. In September 1994 the owner reportedly removed the catchment system. Upon removal of the system, it was revealed that a release of hazardous chemicals had occurred. The chemicals released from the catchment system included petroleum products such as benzene, toluene, ethylbenzene, and xylenes (BTEX) along with some of their volatile breakdown components. Contaminants of concern at the PM Resources, Inc. site are BTEX and volatile by-products involved with the removal of the catchment system and pesticides and herbicides that may have been released during the facility's production history. Chlorobenzene has been detected at elevated concentrations in groundwater beneath the PM Resources, Inc. property. The three VOCs detected in groundwater at PZ-114-AS (benzene, chlorobenzene, and 1,4-dichlorobenzene) appear related to the PM Resources, Inc. impacts.

Based on the lack of VOCs in other detection monitoring wells, the groundwater quality is generally the same or slightly improved compared to 1997 data that indicated sporadic, low-level VOC detections in selected wells.

For metals, Table 1 includes data for arsenic, iron, and manganese, which were identified as compounds of potential concern based on remedial investigation sampling. All arsenic results for the detection wells from November 2003 are significantly below the federal drinking water Maximum Concentration Limit (MCL) of 0.05 mg/l. The 1997 arsenic results ranged from less than detection to 0.096 mg/l, excluding a probable outlier in PZ-109-SS. The November 2003 arsenic results range from less than detection to 0.023 mg/l. Only one well yielded a detectable arsenic concentration that was higher in November 2003 than in either of the two 1997 comparison sampling events, although the typical detection monitoring reporting limit of 0.005 mg/l utilized in November 2003 is slightly higher than the 1997 reporting limit (0.002 mg/l). For iron, approximately 50% of the November 2003 results are slightly lower than at least one of the 1997 sample results and approximately 50% are slightly higher. The 1997 iron concentrations in the detection wells range from 0.087 mg/l to 40 mg/l, and the November 2003 concentrations range from 0.02 mg/l to 66 mg/l. For manganese, the November 2003 concentrations are lower than the 1997 results in 11 of 14 samples (approximately 80%). The 1997 manganese concentrations range from less than detection (<0.01 mg/l) to 87.6 mg/l. The November 2003 manganese concentrations range from 0.008 mg/l to 6.5 mg/l. Based on the metals results, the current groundwater quality is similar to the 1997 groundwater quality.

TDS results from November 2003 were lower than at least one of the 1997 results in 11 of 14 wells (approximately 80%). The TDS values in 1997 ranged from 340 mg/l to 1,510 mg/l. The November 2003 TDS values range from 330 mg/l to 1,400 mg/l. For chloride, approximately 50% of the November 2003 results are slightly lower than at least one of the 1997 results, and approximately 50% are slightly higher. The 1997 chloride results range from less than detection (<3 mg/l) to 296 mg/l, and the November 2003 results range from less than detection (<3 mg/l) to 430 mg/l. Both the 1997 and November 2003 results indicate that one well, PZ-114-AS, exceeds the secondary MCL for chloride of 250 mg/l. For fluoride, approximately 50% of the November 2003 results are slightly lower than at least one of the 1997 results, and approximately 50% are slightly higher. The 1997 fluoride results range from 0.32 mg/l to 2.3 mg/l, and the November 2003 results range from 0.26 mg/l to 2.2 mg/l.

Based on the above comparisons, the groundwater quality monitored by the landfill's detection wells is similar to the 1997 groundwater quality.

#### *Supplemental Alluvial Wells*

Attachment 1 provides the laboratory analytical data sheets and field sampling forms for the supplemental alluvial wells. Table 2 includes a comparison of December 2003 results for the supplemental alluvial wells to data collected during the remedial investigation, where available. It should be noted that MW-F2 was identified as a candidate for supplemental groundwater sampling in the November 12, 2003 proposal. However, MW-F2 could not be located during the sampling event. The above-ground portion of MW-F2 formerly consisted of a 2-inch diameter PVC approximately 10 inches in length, with no protective casing. MW-F2 was not installed as part of the remedial investigation, and its construction quality was unknown. As described in the June 2000 *Remedial Investigation Report* for Operable Unit 2, MW-303-AS was installed adjacent to the MW-F2 location as part of the remedial investigation, to provide a groundwater sampling point with known, reliable construction quality. MW-303-AS was included in the December 2003 supplemental sampling event; therefore, reliable groundwater quality is available for this area.

Of the five supplemental alluvial wells that could be sampled, two (PZ-303-AI and PZ-303-AS) were not included in 1997 sampling. The remaining three alluvial wells do have 1997 data that can be used for comparison purposes. For VOCs with detectable concentrations, the December 2003 results were lower than at least one of the 1997 results in 10 out of 13 instances (approximately 75%). It should be noted that the December 2003 reporting limit was slightly higher than the 1997 reporting limit.

Four of the five supplemental alluvial wells exhibited non-detectable semi-volatile organic compounds (SVOC) in both December 2003 and 1997. Well PZ-303-AS exhibited low-level SVOCs in December 2003, and exhibited the same five SVOCs that had been detected in at least one of the two 1997 sampling events. No SVOCs were detected in December 2003 that had not been detected in 1997.

For the three metals (arsenic, iron, and manganese), December 2003 arsenic concentrations are slightly higher in two of the three wells that also have 1997 data (the third well has a December 2003 detection limit higher than the 1997 results); December 2003 iron concentrations are slightly higher in two of the three wells than in 1997; and, December 2003 manganese concentrations are slightly lower in all three wells than in 1997. For the three inorganics (TDS, chloride, and fluoride), December 2003 TDS values are lower in all three wells than in 1997; December 2003 chloride concentrations are lower in all three wells than in 1997; and, December 2003 fluoride concentrations are lower in all three wells than in 1997. Overall, the metal and inorganic results indicate that December 2003 groundwater quality is comparable to 1997 groundwater quality.

#### *Summary*

Based on the detailed descriptions provided above, the current groundwater quality is similar to the groundwater quality data collected in 1997. Accordingly, the evaluation of remedial alternatives can confidently move forward using the available data. The May/June 2004 sampling results will be used to further verify the applicability of the groundwater quality data for purposes of remedial alternative evaluation.

#### **II. VALIDATED RESULTS RECEIVED**

No validated data were received in February. See Section I above for discussion of laboratory data.

#### **III. WORK PLANNED DURING MARCH AND APRIL 2004.**

Preparation of the FS Report will continue in March.

#### **IV. MATERIAL PROBLEMS ENCOUNTERED OR ANTICIPATED MATERIAL DELAYS**

No material problems or delays were encountered in February and none are anticipated for March or April.

Mr. Dan Wall

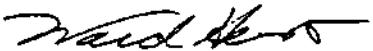
March 9, 2004

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If you have any questions or comments, please contact Mr. Doug Borro, the Respondent's designated Project Coordinator, or the undersigned.

Sincerely,

HERST & ASSOCIATES, INC.



Ward E. Herst, CPHG, CEM

Managing Director

cc: Michael Hockley, Esq. - Spencer Fane Britt & Browne  
Tony Walker - Allied Waste Industries, Inc.  
Rod Bloese - Allied Waste Industries, Inc  
Jill Bruss - Missouri Department of Natural Resources  
Jacinta Douma - Bridgeton Landfill, LLC.  
Paul Rosasco - Engineering Management Support, Inc.

## **TABLES**

**Table 1**  
**Detection Monitoring Network**  
**Groundwater Data Comparison, 1997 to 2003**

Compound	PZ-100-SD February 1997	PZ-100-SD May 1997	PZ-100-SS November 2003	PZ-100-SD February 1997	PZ-100-SD May 1997	PZ-100-SD November 2003	PZ-104-SD February 1997	PZ-104-SD May 1997	PZ-104-SD November 2003	PZ-104-AS August 1997	PZ-104-AS November 2003	PZ-105-SS February 1997	PZ-105-SD May 1997	PZ-105-SD November 2003	PZ-106-SD February 1997	PZ-106-SD May 1997	PZ-106-SD November 2003	PZ-106-SS February 1997	PZ-106-SS May 1997	PZ-106-SS November 2003	
1,2- <i>o</i> -Dichlorobenzene	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	
1,4-Dichlorobenzene	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	
Benzene	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	
Chlorobenzene	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	
Xylenes (Total)	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	
Antimony, Total	0.002	0.002	<0.025	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	0.004	<0.002	<0.005	0.003	<0.002	<0.002	<0.002	<0.002	<0.002	<0.002	<0.005	
Iron, Total	1.71	2.07	1.7	1.55	0.564	0.62	0.378	0.327	1.1	3.06	0.833	3.2	6.47	4.85	8.1	0.867	8.133	9.14	0.189	8.279	1
Manganese, Total	0.217	0.225	0.1	0.15	0.045	0.094	0.14	0.164	0.074	0.857	0.084	0.031	0.24	0.0487	0.051	0.293	0.337	0.028	0.025	0.617	0.37
Phosphate	2.02	2.2	2.1	0.9	4.87	4.76	0.77	0.68	1.1	0.73	0.51	0.35	0.47	0.448	0.76	4.9	1	1.2	1.05	2	2.1
Total Dissolved Solids (TDS)	412	172	310	218	532	500	530	538	540	509	429	410	436	443	540	465	618	548	474	531	449

**Detection Monitoring Network (continued)**  
**Groundwater Data Comparison, 1997 to 2003**

Compound	PZ-109-SS August 1997	PZ-109-SS November 1997	PZ-109-SS November 2003	PZ-110-SS February 1997	PZ-110-SS May 1997	PZ-110-SS November 2003	PZ-111-SD February 1997	PZ-111-SD May 1997	PZ-111-SD November 2003	PZ-114-AS August 1997	PZ-114-AS November 2003	PZ-115-SS February 1997	PZ-115-SS May 1997	PZ-115-SS November 2003	PZ-201A-SS February 1997	PZ-201A-SS May 1997	PZ-201A-SS November 2003	PZ-205-SS February 1997	PZ-205-SS May 1997	PZ-205-SS November 2003	
1,2- <i>o</i> -Dichlorobenzene	<0.005	<0.005	<0.005	<0.002	0.0024	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	
1,4-Dichlorobenzene	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	
Benzene	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	0.007	0.0081	0.12	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	
Chlorobenzene	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.005	<0.005	<0.005	
Xylenes (Total)	<0.005	<0.005	<0.005	<0.002	<0.002	<0.005	<0.002	<0.002	<0.005	0.004	0.008	0.223	<0.002	<0.00453	<0.005	0.003	0.004	0.0065	<0.002	0.00532	<0.005
Antimony, Total	0.002	0.003	<0.025	0.002	0.002	<0.005	<0.002	<0.002	<0.005	0.004	0.008	0.223	<0.002	<0.00453	<0.005	0.003	0.004	0.0065	0.002	0.00532	1.1
Iron, Total	4.77	1.24	1.7	4.46	4.57	0	0.44	0.293	1.2	0.44	0.44	0.44	0.44	0.44	2.0	1.47	1.47	1.44	1.44	1.44	
Manganese, Total	0.12	0.034	0.019	0.156	0.156	0.22	0.017	0.018	0.008	27	87.6	8.5	<0.01	0.0047	0.007	8.265	0.218	0.15	0.22	0.161	0.039
Chloride	18	8.3	4	215	185	230	18	18	2.1	296	215	258	21	57.3	540	5	13	3.1	34	17.4	30
Fluoride	1.61	1.8	2.2	0.43	0.58	0.4	1.2	2.3	2.1	0.32	0.337	0.28	1.0	1.32	0.47	0.32	0.58	0.38	0.44	0.413	0.47
Total Dissolved Solids (TDS)	529	482	478	1,418	1,158	1,308	340	362	470	3,450	3,510	1,409	893	3,000	549	525	469	481	489	510	

All results presented in mg/L.

\* Probable outlier not representative of antimony in this well. Subsequent sampling results consistently yield detect concentrations of 0.008 mg/L or less.

Note:

1) Wells PZ-105-SS, PZ-109-SS, PZ-114-AS, PZ-115-SS and PZ-205-SS were not part of the sampling events conducted in February and May 1997. August and November 1997 data are presented.

2) Analyses shown include only those parameters detected in at least one sample.

**Table 2**  
**Wells PZ-302-AS, PZ-302-AI, PZ-303-AS, PZ-304-AS, PZ-304-AI**  
**Groundwater Data Comparison, 1997 to 2003**

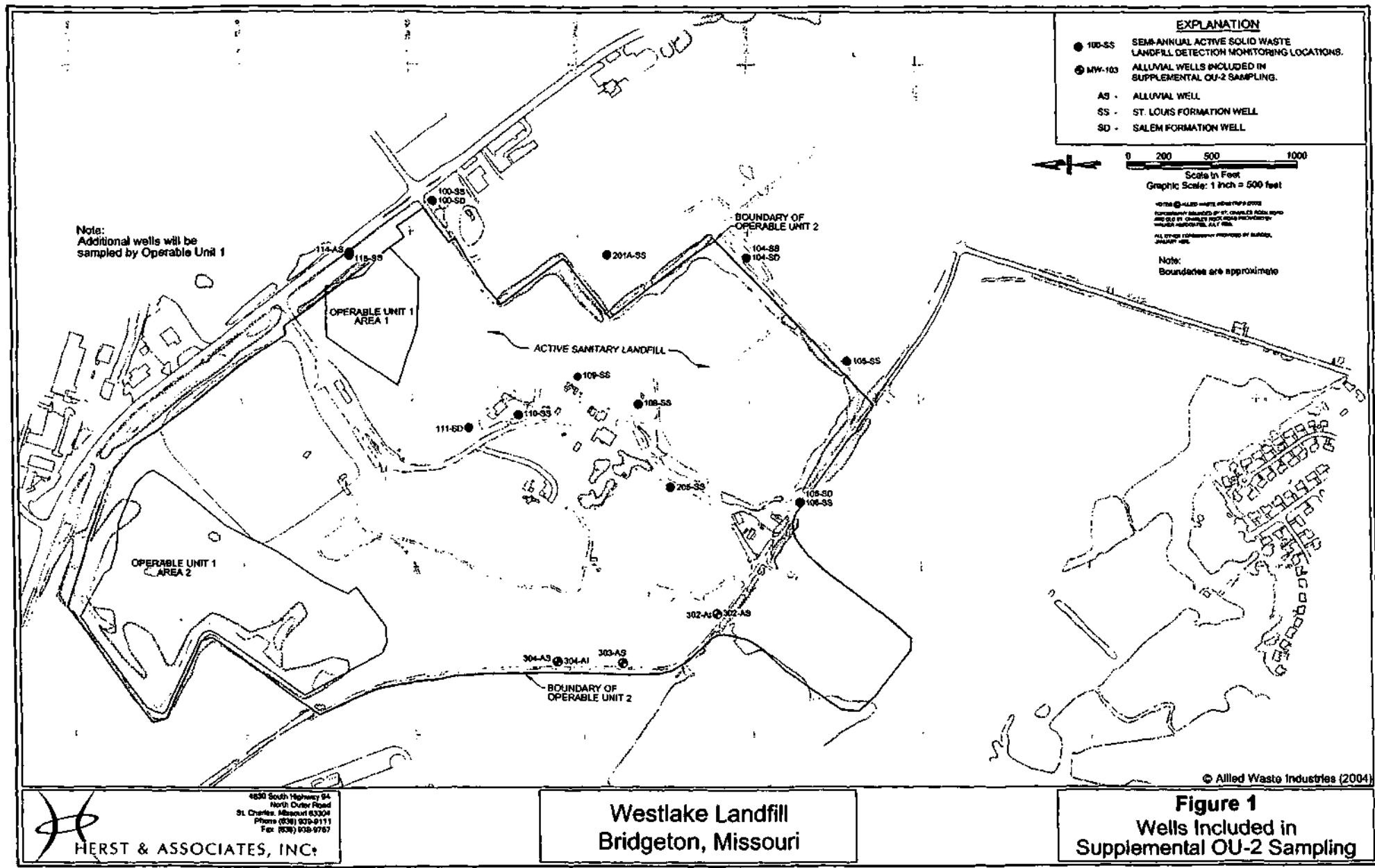
Compound	PZ-302-AI December 2003	PZ-302-AS December 2003	PZ-303-AS February 1997 May 1997	PZ-303-AS December 2003	PZ-304-AI February 1997 May 1997	PZ-304-AI December 2003	PZ-304-AS February 1997 May 1997	PZ-304-AS December 2003
<b>Volatile</b>	<0.005	<0.005	<0.002	0.033	<0.02	<0.002	<0.002	<0.005
	<0.005	<0.005	<0.002	<0.002	<0.02	<0.002	<0.002	<0.005
	<0.005	<0.005	0.008	0.0081	<0.02	0.011	0.013	0.014
	<0.005	<0.005	<0.002	0.0038	<0.02	<0.002	<0.002	<0.005
	<0.005	<0.005	0.002	<0.002	<0.02	<0.002	<0.005	<0.005
	<0.005	<0.005	0.002	0.0025	<0.02	<0.002	<0.002	<0.005
	<0.005	<0.005	<0.002	0.0034	<0.02	0.003	0.0033	<0.005
	<0.005	<0.005	<0.002	0.0034	<0.02	0.003	0.0033	0.012
	Acetone	<0.005	0.009	<0.005	<0.1	<0.005	<0.005	<0.005
	Benzene	<0.005	0.0051	0.078	0.078	0.054	0.01	0.011
	Chlorobenzene	<0.005	0.054	<0.002	<0.002	<0.02	<0.002	<0.005
	Chloroethane	<0.005	<0.005	0.013	0.011	<0.02	<0.002	<0.005
	Ethylbenzene	<0.005	<0.005	0.120	0.113	0.058	<0.002	<0.005
	Methyl Ethyl Ketone	<0.005	<0.005	0.007	<0.005	<0.1	<0.005	<0.005
	Gasoline Range Organics	<0.05	0.13	1.3	1.3	3.7	<0.05	<0.05
	Petroleum Hydrocarbons (Diesel)	<0.48	<0.5	19	10	14	0.69	0.4
	Slyrene	<0.005	<0.005	0.006	<0.002	<0.02	<0.002	<0.005
	Toluene	<0.005	<0.005	0.4	0.260	0.7	<0.002	<0.005
	trans-1,3-Dichloropropylene	<0.005	<0.005	0.008	<0.002	<0.02	<0.002	<0.005
	Vinyl chloride	<0.001	<0.001	0.012	0.026	<0.02	0.01	0.0062
	Xylenes (Total)	<0.005	<0.005	0.67	0.53	0.39	<0.002	<0.005
<b>Semi-volatiles</b>	2,4-Dimethylphenol	<0.01	<0.01	0.086	0.078	0.062	<0.01	<0.01
	2-Methylnaphthalene	<0.01	<0.01	<0.01	0.015	0.045	<0.01	<0.01
	4-Methylphenol (p-Cresol)	<0.01	<0.01	<0.01	0.016	0.015	<0.01	<0.01
	Naphthalene	<0.01	<0.01	0.032	0.032	0.035	<0.01	<0.01
	o-Cresol	<0.01	<0.01	0.022	<0.01	0.031	<0.01	<0.01
<b>Metals</b>	Arsenic, Total	<0.01	0.25	0.087	0.057	0.12	0.003	0.002
	Iron, Total	1.7	103.0	90.1	83.4	104.0	10.3	10.4
	Manganese, Total	0.19	3.7	2.34	1.62	2.2	1.8	1.82
<b>Inorganics</b>	Chloride	66.2	54.0	191	170	106	209	239
	Fluoride	0.27	0.40	0.33	0.37	0.18	0.45	0.54
	Total Dissolved Solids (TDS)	768	927	1,396	1,344	1,210	1,070	1,220

All results presented in mg/L

Notes:

- 1) The December 2003 data indicate detections of Cyclohexane at 0.02 mg/L and Methylcyclohexane at 0.03 mg/L in PZ-303-AS. These compounds were not analyzed in the February and May 1997 sampling events.
- 2) Wells PZ-302-AI and PZ-302-AS were not part of the sampling event conducted in February and May 1997.
- 3) p-Cresol reported as m+p-Cresol in prior sampling events
- 4) Analytes shown include only those parameters detected in at least one sample.

## **FIGURES**



4830 South Highway 94  
North Outer Road  
St. Charles, Missouri 63304  
Phone: (800) 809-9111  
Fax: (800) 809-9767

## **HERST & ASSOCIATES, INC.**

**Westlake Landfill  
Bridgeton, Missouri**

© Allied Waste Industries (2004)

**Figure 1**  
Wells Included in  
Supplemental OU-2 Sampling

## **ATTACHMENT I**



STL Buffalo  
10 Hazelwood Drive, Suite 106  
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991  
[www.stl-inc.com](http://www.stl-inc.com)

ANALYTICAL REPORT

Job#: A03-C204, A03-C243

STL Project#: NY0A862901

SDG#: C204

Site Name: ALLIED WASTE - WESTLAKE LANDFILL (MO)

Task: Westlake Landfill

Mr. Ward Herst  
Herst & Associates  
4630 S. Hwy 94, N. Outer Rd.  
St. Charles, MO 63304

STL Buffalo

  
\_\_\_\_\_  
Brian J. Fischer  
Project Manager

01/05/2004

**STL Buffalo**  
**Current Certifications**

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
<b>A2LA (ISO 17025)</b>	SDWA, CWA, RCRA	0732-01
<b>Arkansas</b>	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
<b>California</b>	NELAP CWA, RCRA	01169CA
<b>Canada</b>	GENERAL	SCC 1007-15/10B
<b>Connecticut</b>	SDWA, CWA, RCRA, SOIL	PH-0568
<b>Florida</b>	NELAP CWA, RCRA	E87672
<b>Georgia</b>	SDWA	956
<b>Illinois</b>	NELAP SDWA, CWA, RCRA	200003
<b>Kansas</b>	NELAP SDWA, CWA, RCRA	E-10187
<b>Kentucky</b>	SDWA	90029
<b>Kentucky UST</b>	UST	30
<b>Louisiana</b>	NELAP CWA, RCRA	2031
<b>Maine</b>	SDWA, CWA	NY044
<b>Maryland</b>	SDWA	294
<b>Massachusetts</b>	SDWA, CWA	M-NY044
<b>Michigan</b>	SDWA	9937
<b>Minnesota</b>	SDWA, CWA, RCRA	036-999-337
<b>New Hampshire</b>	NELAP SDWA, CWA	233701
<b>New Jersey</b>	SDWA, CWA, RCRA, CLP	NY455
<b>New York</b>	NELAP, AIR, SDWA, CWA, RCRA	10026
<b>North Carolina</b>	CWA	411
<b>North Dakota</b>	SDWA, CWA, RCRA	R-176
<b>Oklahoma</b>	CWA, RCRA	9421
<b>Oregon</b>	NELAP, SDWA, CWA, RCRA	NY200001
<b>Pennsylvania</b>	NELAP, Env. Lab Reg.	68-281
<b>South Carolina</b>	RCRA	91013
<b>Tennessee</b>	SDWA	2970
<b>USDA</b>	FOREIGN SOIL PERMIT	S-4650
<b>Virginia</b>	SDWA	278
<b>Washington</b>	CWA, RCRA	C254
<b>West Virginia</b>	CWA	252
<b>Wisconsin</b>	CWA	998310390
<b>Wyoming UST</b>	UST	NA

**SAMPLE SUMMARY**

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED DATE</u>	<u>SAMPLED TIME</u>	<u>RECEIVED DATE</u>	<u>RECEIVED TIME</u>
A3C20401	DUPLICATE	12/11/2003	12:05	12/15/2003	10:00
A3C20406	FIELD BLANK	12/11/2003	15:20	12/15/2003	10:00
A3C20402	PZ-302-AI	12/11/2003	15:25	12/15/2003	10:00
A3C24301	PZ-302-AS	12/15/2003	11:00	12/16/2003	10:15
A3C20403	PZ-303-AS	12/11/2003	12:35	12/15/2003	10:00
A3C20404	PZ-304-AI	12/11/2003	12:00	12/15/2003	10:00
A3C20405	PZ-304-AS	12/11/2003	13:10	12/15/2003	10:00
A3C20407	TRIP BLANK	12/11/2003		12/15/2003	10:00

## METHODS SUMMARY

Job#: A03-C204,A03-C243

STL Project#: NY0A862901  
 SDG#: C204  
 Site Name: ALLIED WASTE - WESTLAKE LANDFILL (MO)

PARAMETER	ANALYTICAL METHOD
WESTLAKE - 8260 25ML- TCL VOLATILES - W (UNPRES)	SW8463 8260
ALLIED - GASOLINE RANGE ORGANICS-8015B-W (UNPRES)	SW8463 8015 B
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
ALLIED - DIESEL RANGE ORGANICS - METHOD 8015B - W	SW8463 8015B
Arsenic - Total	SW8463 6010
Iron - Total	SW8463 6010
Manganese - Total	SW8463 6010
Chloride	SW8463 9056
Fluoride	SW8463 9056
Total Dissolved Solids	CFR136 160.1

References:

- CFR136 Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, and Appendix A-C; 40 CFR Part 136, USEPA Office of Water.
- SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

## NON-COMFORMANCE SUMMARY

Job#: A03-C204,A03-C243STL Project#: NY0A862901SDG#: C204Site Name: ALLIED WASTE - WESTLAKE LANDFILL (MD)General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A03-C204

Sample Cooler(s) were received at the following temperature(s); 2@2.0 °C  
All samples were received in good condition.

A03-C243

Sample Cooler(s) were received at the following temperature(s); 2.0 °C  
All samples were received in good condition.

GC/MS Volatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Volatile Data

For method 8015B, sample PZ-303-AS exhibited a pH >2 at the time of analysis. The analysis was performed within 7 days of sampling, therefore there is no impact on data usability.

For Method 8015B, the recovery of surrogate a,a,a-Trifluorotoluene is slightly above control limits for the initial calibration verification, and compliant in all subsequent calibration verifications. All sample recoveries are within control limits, no action required.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Extractable Data

No deviations from protocol were encountered during the analytical procedures.

Metals Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

\*\*\*\*\*

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

Date: 01/05/2004  
Time: 14:26:42

Dilution Log w/Code Information  
For Project NY0A862901, S08 C204

782

Page: 1  
Rept: AN1266R

<u>Client Sample ID</u>	<u>Lab Sample ID</u>	<u>Parameter (Inorganic)/Method (Organic)</u>	<u>Dilution</u>	<u>Code</u>
DUPLICATE	A3C20401	Chloride	5.00	008
DUPLICATE	A3C20401	Fluoride	2.00	002
PZ-303-AS	A3C20403	8015 B	10.00	008
PZ-303-AS	A3C20403	8015B	2.00	008
PZ-303-AS	A3C20403	8260	20.00	008
PZ-303-AS	A3C20403	Chloride	2.00	008
PZ-303-AS	A3C20403	Fluoride	2.00	002
PZ-304-AI	A3C20404	Chloride	10.00	008
PZ-304-AI	A3C20404	Fluoride	2.00	002
PZ-304-AS	A3C20405	Chloride	10.00	002
PZ-304-AS	A3C20405	Fluoride	2.00	002
PZ-302-ASDL	A3C24301DL	8260	2.00	008

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Dilution Code Definition:

- 002 - sample matrix effects
- 003 - excessive foaming
- 004 - high levels of non-target compounds
- 005 - sample matrix resulted in method non-compliance for an Internal Standard
- 006 - sample matrix resulted in method non-compliance for Surrogate
- 007 - nature of the TCLP matrix
- 008 - high concentration of target analyte(s)
- 009 - sample turbidity
- 010 - sample color
- 011 - insufficient volume for lower dilution
- 012 - sample viscosity
- 013 - other

## DATA COMMENT PAGE

### ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected at or above the reporting limit
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- Indicates coelution.
- \* Indicates analysis is not within the quality control limits.

### INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected at or above the reporting limit
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit
- N Indicates spike sample recovery is not within the quality control limits.
- K Indicates the post digestion spike recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- M Indicates duplicate injection results exceeded quality control limits.
- W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- \* Indicates analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

## Sample Data Package

Date: 02/04/2004  
Time: 09:03:50

ALLIED WASTE - WESTLAKE LANDFILL (MD)  
Westlake Landfill  
WESTLAKE - 8260 25ML - TCL VOLATILES - W(UNPRES)

Rept: ANUSZ6

Client ID Job No Sample Date	Lab 10	DUPLICATE A03-C204 12/11/2003	A3C20401	FIELD BLANK A03-C204 12/11/2003	A3C20406	PZ-302-A1 A03-C204 12/11/2003	A3C20402	PZ-302-AS A03-C243 12/15/2003	A3C24301
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzene	UG/L	ND	5.0	ND	5.0	ND	5.0	5.1	5.0
Bromodichloromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Bromoform	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Bromomethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
2-Butanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Carbon Disulfide	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Carbon Tetrachloride	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	55 E	5.0
Chloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chloroform	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chloromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Cyclohexane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2-Dibromoethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Dibromochloromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2-Dibromo-3-chloropropane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2-Dichlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,3-Dichlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,4-Dichlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Dichlorodifluoromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,1-Dichloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2-Dichloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,1-Dichloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
cis-1,2-Dichloroethene	UG/L	14	5.0	ND	5.0	ND	5.0	ND	5.0
trans-1,2-Dichloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2-Dichloropropane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
cis-1,3-Dichloropropene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
trans-1,3-Dichloropropene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Ethybenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
2-Hexanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Isopropylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Methyl acetate	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Methylcyclohexane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Methylene chloride	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Methyl tert butyl ether	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Styrene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Tetrachloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Toluene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2,4-Trichlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,1,1-Trichloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,1,2-Trichloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0

NA = Not Applicable ND = Not Detected

STL Buffalo

10/82

Date: 06/04/2004  
Time: 09:03:50

ALLIED WASTE - WESTLAKE LANDFILL (PNU)  
Westlake Landfill  
WESTLAKE - 8260 25ML - TCL VOLATILES - W(UNPRES)

REPT: KRUSCO

Client ID Job No Sample Date	Lab ID	DUPLICATE A03-C204 12/11/2003	A3C20401	FIELD BLANK A03-C204 12/11/2003	A3C20406	PZ-302-A1 A03-C204 12/11/2003	A3C20402	PZ-302-AS A03-C243 12/15/2003	A3C24301
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Trichlorofluoromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Trichloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Vinyl acetate	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Vinyl chloride	UG/L	5.4	1.0	ND	1.0	ND	1.0	ND	1.0
Total Xylenes	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
--IS/SURROGATE(S)--									
Chlorobenzene-05	%	97	50-200	102	50-200	98	50-200	91	50-200
1,4-Difluorobenzene	%	95	50-200	102	50-200	97	50-200	96	50-200
1,4-Dichlorobenzene-04	%	100	50-200	102	50-200	96	50-200	88	50-200
Toluene-08	%	91	76-116	90	76-116	92	76-116	94	76-116
p-Bromofluorobenzene	%	101	73-117	101	73-117	100	73-117	86	73-117
1,2-Dichloroethane-04	%	83	72-143	85	72-143	81	72-143	88	72-143

NA = Not Applicable    ND = Not Detected

STL Buffalo

Date: 02/04/2004  
Time: 09:03:50

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
WESTLAKE - 8260 25ML- TCL VOLATILES - W(UNPRES)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	PZ-302-ASDL A03-C243 12/15/2003	A3C24301DL	PZ-303-AS A03-C204 12/11/2003	A3C20403	PZ-304-AI A03-C204 12/11/2003	A3C20404	PZ-304-AS A03-C204 12/11/2003	A3C20405
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	10	ND	100	ND	5.0	ND	5.0
Benzene	UG/L	ND	10	54	20	ND	5.0	5.3	5.0
Bromodichloromethane	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Bromoform	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Bromomethane	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
2-Butanone	UG/L	ND	10	ND	100	ND	5.0	ND	5.0
Carbon Disulfide	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Carbon Tetrachloride	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Chlorobenzene	UG/L	54 D	10	ND	20	ND	5.0	ND	5.0
Chloroethane	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Chloroform	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Chloromethane	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Cyclohexane	UG/L	ND	10	20	20	ND	5.0	ND	5.0
1,2-Dibromoethane	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Dibromochloromethane	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
1,2-Dibromo-3-chloropropane	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
1,2-Dichlorobenzene	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
1,3-Dichlorobenzene	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
1,4-Dichlorobenzene	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Dichlorodifluoromethane	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
1,1-Dichloroethane	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
1,2-Dichloroethane	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
1,1-Dichloroethene	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
cis-1,2-Dichloroethene	UG/L	ND	10	ND	20	14	5.0	ND	5.0
trans-1,2-Dichloroethene	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
1,2-Dichloropropene	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
cis-1,3-Dichloropropene	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
trans-1,3-Dichloropropene	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Ethylbenzene	UG/L	ND	10	56	20	ND	5.0	ND	5.0
2-Hexanone	UG/L	ND	10	ND	100	ND	5.0	ND	5.0
Isopropylbenzene	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Methyl acetate	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Methylcyclohexane	UG/L	ND	10	30	20	ND	5.0	ND	5.0
Methylene chloride	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
4-Methyl-2-pentanone	UG/L	ND	10	ND	100	ND	5.0	ND	5.0
Methyl tert butyl ether	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Styrene	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
1,1,2,2-Tetrachloroethane	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Tetrachloroethene	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Toluene	UG/L	ND	10	700	20	ND	5.0	ND	5.0
1,2,4-Trichlorobenzene	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
1,1,1-Trichloroethane	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
1,1,2-Trichloroethane	UG/L	ND	10	ND	20	ND	5.0	ND	5.0

NA = Not Applicable ND = Not Detected

STL Buffalo

1282

Date: 06/04/2004  
Time: 09:03:50

ALLIED WASTE - WESTLAKE LANDFILL (MU)  
Westlake Landfill  
WESTLAKE - 8260 25ML- TCL VOLATILES - H(UNPRES)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	PZ-302-ASDL A03-C243 12/15/2003	A3C243010L	PZ-303-AS A03-C204 12/11/2003	A3C20403	PZ-304-AI A03-C204 12/11/2003	A3C20404	PZ-304-AS A03-C204 12/11/2003	A3C20405
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Trichlorofluoromethane	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Trichloroethene	UG/L	ND	10	ND	20	ND	5.0	ND	5.0
Vinyl acetate	UG/L	ND	10	ND	100	ND	5.0	ND	5.0
Vinyl chloride	UG/L	ND	2.0	ND	20	5.3	1.0	1.4	1.0
Total Xylenes	UG/L	ND	10	390	60	ND	5.0	ND	5.0
IS/SURROGATE(S)									
Chlorobenzene-D5	%	89	50-200	95	50-200	95	50-200	98	50-200
1,4-Difluorobenzene	%	93	50-200	96	50-200	92	50-200	94	50-200
1,4-Dichlorobenzene-D4	%	84	50-200	94	50-200	99	50-200	104	50-200
Toluene-D8	%	99	76-116	97	76-116	95	76-116	91	76-116
p-Bromofluorobenzene	%	84	73-117	102	73-117	104	73-117	99	73-117
1,2-Dichloroethane-D4	%	87	72-143	81	72-143	86	72-143	84	72-143

NA = Not Applicable ND = Not Detected

STL Buffalo

13/82

Date: 01/27/2004  
Time: 09:02:07

ALLIED WASTE - WESTLAKE LANDFILL (HO)  
Westlake Landfill  
ALLIED - GASOLINE RANGE ORGANICS-80158-W (UNPRES)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	DUPPLICATE A03-C204 12/11/2003	A3C20401	PZ-302-AI A03-C204 12/11/2003	A3C20402	PZ-302-AS A03-C243 12/15/2003	A3C24301	PZ-303-AS A03-C204 12/11/2003	A3C20403
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Gasoline Range Organics SURROGATE(S)	MG/L	ND	0.050	ND	0.050	0.13	0.050	3.7	0.50
a,a,a-Trifluorotoluene	X	131	71-138	128	71-138	133	71-138	129	71-138

Client ID Job No Sample Date	Lab ID	PZ-304-AI A03-C204 12/11/2003	A3C20404	PZ-304-AS A03-C204 12/11/2003	A3C20405				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Gasoline Range Organics SURROGATE(S)	MG/L	ND	0.050	ND	0.050	NA		NA	
a,a,a-Trifluorotoluene	X	130	71-138	131	71-138	NA		NA	

NA = Not Applicable    ND = Not Detected

STL Buffalo

Date: 01/27/2004  
Time: 08:51:18

ALLIED WASTE • WESTLAKE LANDFILL (ND)  
Westlake Landfill  
METHOD 8270 • TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	DUPLICATE A03-C204 12/11/2003	A3C20401	PZ-302-AI A03-C204 12/11/2003	A3C20402	PZ-303-AS A03-C204 12/11/2003	A3C20403	PZ-304-AI A03-C204 12/11/2003	A3C20404
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Phenol	UG/L	ND	10	ND	10	ND	10	ND	10
Bis(2-chloroethyl) ether	UG/L	ND	10	ND	10	ND	10	ND	10
2-Chlorophenol	UG/L	ND	10	ND	10	ND	10	ND	10
2-Methylphenol	UG/L	ND	10	ND	10	31	10	ND	10
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	10	ND	10	ND	10	ND	10
4-Methylphenol	UG/L	ND	10	ND	10	15	10	ND	10
N-Nitroso-Di-n-propylamine	UG/L	ND	10	ND	10	ND	10	ND	10
Hexachloroethane	UG/L	ND	10	ND	10	ND	10	ND	10
Nitrobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
Isophorone	UG/L	ND	10	ND	10	ND	10	ND	10
2-Nitrophenol	UG/L	ND	10	ND	10	ND	10	ND	10
2,4-Dimethylphenol	UG/L	ND	10	ND	10	62	10	ND	10
Bis(2-chloroethoxy) methane	UG/L	ND	10	ND	10	ND	10	ND	10
2,4-Dichlorophenol	UG/L	ND	10	ND	10	ND	10	ND	10
Naphthalene	UG/L	ND	10	ND	10	35	10	ND	10
4-Chloraniline	UG/L	ND	10	ND	10	ND	10	ND	10
Hexachlorobutadiene	UG/L	ND	10	ND	10	ND	10	ND	10
4-Chloro-3-methylphenol	UG/L	ND	10	ND	10	ND	10	ND	10
2-Methylnaphthalene	UG/L	ND	10	ND	10	46	10	ND	10
Hexachlorocyclopentadiene	UG/L	ND	23	ND	23	ND	23	ND	23
2,4,6-Trichlorophenol	UG/L	ND	10	ND	10	ND	10	ND	10
2,4,5-Trichlorophenol	UG/L	ND	10	ND	10	ND	10	ND	10
2-Chloronaphthalene	UG/L	ND	10	ND	10	ND	10	ND	10
2-Nitroaniline	UG/L	ND	48	ND	48	ND	48	ND	48
Dimethyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
Acenaphthylene	UG/L	ND	10	ND	10	ND	10	ND	10
3-Nitroaniline	UG/L	ND	48	ND	48	ND	48	ND	48
Acenaphthene	UG/L	ND	10	ND	10	ND	10	ND	10
2,6-Dinitrophenol	UG/L	ND	48	ND	48	ND	48	ND	48
4-Nitrophenol	UG/L	ND	48	ND	48	ND	48	ND	48
Dibenzofuran	UG/L	ND	10	ND	10	ND	10	ND	10
2,4-Dinitrotoluene	UG/L	ND	10	ND	10	ND	10	ND	10
Diethyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
4-Chlorophenyl phenyl ether	UG/L	ND	10	ND	10	ND	10	ND	10
Fluorene	UG/L	ND	10	ND	10	ND	10	ND	10
4-Nitroaniline	UG/L	ND	48	ND	48	ND	48	ND	48
4,6-Dinitro-2-methylphenol	UG/L	ND	48	ND	48	ND	48	ND	48
N-nitrosodiphenylamine	UG/L	ND	10	ND	10	ND	10	ND	10
4-Bromophenyl phenyl ether	UG/L	ND	10	ND	10	ND	10	ND	10
Hexachlorobenzene	UG/L	ND	10	ND	10	ND	10	ND	10
Pentachlorophenol	UG/L	ND	48	ND	48	ND	48	ND	48
Phenanthrene	UG/L	ND	10	ND	10	ND	10	ND	10
Anthracene	UG/L	ND	10	ND	10	ND	10	ND	10

NA = Not Applicable ND = Not Detected

STL Buffalo

15/82

Date: 01/27/2004  
Time: 08:51:18

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
METHOD 8270 • TCL SEMI-VOLATILE ORGANICS

Rept: AND326

Client ID Job No Sample Date	Lab ID	DUPLICATE A03-C204 12/11/2003	A3C20401	PZ-302-AI A03-C204 12/11/2003	A3C20402	PZ-303-AS A03-C204 12/11/2003	A3C20403	PZ-304-AI A03-C204 12/11/2003	A3C20404
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Di-n-butyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
Fluoranthene	UG/L	ND	10	ND	10	ND	10	ND	10
Pyrene	UG/L	ND	10	ND	10	ND	10	ND	10
Butyl benzyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
3,3'-Dichlorobenzidine	UG/L	ND	19	ND	19	ND	19	ND	19
Benzo(a)anthracene	UG/L	ND	10	ND	10	ND	10	ND	10
Chrysene	UG/L	ND	10	ND	10	ND	10	ND	10
Bis(2-ethylhexyl) phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
Di-n-octyl phthalate	UG/L	ND	10	ND	10	ND	10	ND	10
Benzo(b)fluoranthene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzo(k)fluoranthene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzo(a)pyrene	UG/L	ND	10	ND	10	ND	10	ND	10
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	ND	10	ND	10	ND	10
Dibenz(a,h)anthracene	UG/L	ND	10	ND	10	ND	10	ND	10
Benzo(ghi)perylene	UG/L	ND	10	ND	10	ND	10	ND	10
2,6-Dinitrotoluene	UG/L	ND	10	ND	10	ND	10	ND	10
IS/SURROGATE(S)									
1,4-Dichlorobenzene-d4	%	130	50-200	98	50-200	97	50-200	95	50-200
Naphthalene-d8	%	135	50-200	103	50-200	91	50-200	95	50-200
Acenaphthene-d10	%	129	50-200	100	50-200	94	50-200	95	50-200
Phenanthrene-d10	%	120	50-200	100	50-200	87	50-200	92	50-200
Chrysene-d12	%	110	50-200	91	50-200	92	50-200	87	50-200
Perylene-d12	%	127	50-200	104	50-200	104	50-200	98	50-200
Mitrobenzene-d5	%	69	37-120	72	37-120	85	37-120	78	37-120
2-Fluorobiphenyl	%	82	47-120	88	47-120	93	47-120	90	47-120
p-Terphenyl-d14	%	90	31-154	107	31-154	94	31-154	94	31-154
Phenol-d5	%	28	10-110	31	10-110	34	10-110	34	10-110
2-Fluorophenol	%	42	18-120	47	18-120	53	18-120	49	18-120
2,4,6-Tribromophenol	%	95	41-149	100	41-149	103	41-149	100	41-149

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 01/27/2004  
Time: 08:51:18

ALLIED WASTE - WESTLAKE LANDFILL (NO)  
Westlake Landfill  
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	PZ-304-AS A03-C204 12/11/2003	A3C20405						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Phenol	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/L	ND	10	NA		NA		NA	
2-Chlorophenol	UG/L	ND	10	NA		NA		NA	
2-Methylphenol	UG/L	ND	10	NA		NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	10	NA		NA		NA	
4-Methylphenol	UG/L	ND	10	NA		NA		NA	
N-Nitroso-Di-n-propylamine	UG/L	ND	10	NA		NA		NA	
Hexachloroethane	UG/L	ND	10	NA		NA		NA	
Nitrobenzene	UG/L	ND	10	NA		NA		NA	
Isophorone	UG/L	ND	10	NA		NA		NA	
2-Nitrophenol	UG/L	ND	10	NA		NA		NA	
2,4-Dimethylphenol	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/L	ND	10	NA		NA		NA	
2,4-Dichlorophenol	UG/L	ND	10	NA		NA		NA	
Naphthalene	UG/L	ND	10	NA		NA		NA	
4-Chloroaniline	UG/L	ND	10	NA		NA		NA	
Hexachlorobutadiene	UG/L	ND	10	NA		NA		NA	
4-Chloro-3-methylphenol	UG/L	ND	10	NA		NA		NA	
2-Methylnaphthalene	UG/L	ND	10	NA		NA		NA	
Hexachlorocyclopentadiene	UG/L	ND	23	NA		NA		NA	
2,4,6-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
2,4,5-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
2-Chloronaphthalene	UG/L	ND	10	NA		NA		NA	
2-Nitroaniline	UG/L	ND	48	NA		NA		NA	
Dimethyl phthalate	UG/L	ND	10	NA		NA		NA	
Acenaphthylene	UG/L	ND	10	NA		NA		NA	
3-Nitroaniline	UG/L	ND	48	NA		NA		NA	
Acenaphthene	UG/L	ND	10	NA		NA		NA	
2,6-Dinitrophenol	UG/L	ND	48	NA		NA		NA	
4-Nitrophenol	UG/L	ND	48	NA		NA		NA	
Dibenzofuran	UG/L	ND	10	NA		NA		NA	
2,4-Dinitrotoluene	UG/L	ND	10	NA		NA		NA	
Diethyl phthalate	UG/L	ND	10	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Fluorene	UG/L	ND	10	NA		NA		NA	
4-Nitroaniline	UG/L	ND	48	NA		NA		NA	
4,6-Dinitro-2-methylphenol	UG/L	ND	48	NA		NA		NA	
N-nitrosodiphenylamine	UG/L	ND	10	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Hexachlorobenzene	UG/L	ND	10	NA		NA		NA	
Pentachlorophenol	UG/L	ND	48	NA		NA		NA	
Phenanthrene	UG/L	ND	10	NA		NA		NA	
Anthracene	UG/L	ND	10	NA		NA		NA	

NA = Not Applicable   ND = Not Detected

STL Buffalo

1782

Date: 01/27/2004  
Time: 08:51:18

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	PZ-304-AS A03-C204 12/11/2003	A3C20405						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Di-n-butyl phthalate	UG/L	ND	10	NA		NA		NA	
Fluoranthene	UG/L	ND	10	NA		NA		NA	
Pyrene	UG/L	ND	10	NA		NA		NA	
Butyl benzyl phthalate	UG/L	ND	10	NA		NA		NA	
3,3'-Dichlorobenzidine	UG/L	ND	19	NA		NA		NA	
Benzo(a)anthracene	UG/L	ND	10	NA		NA		NA	
Chrysene	UG/L	ND	10	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/L	ND	10	NA		NA		NA	
Di-n-octyl phthalate	UG/L	ND	10	NA		NA		NA	
Benzo(b)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(k)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzo(a)pyrene	UG/L	ND	10	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	NA		NA		NA	
Dibenzof[a,h]anthracene	UG/L	ND	10	NA		NA		NA	
Benzo(ghi)perylene	UG/L	ND	10	NA		NA		NA	
2,6-Dinitrotoluene	UG/L	ND	10	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D4	%	109	50-200	NA		NA		NA	
Naphthalene-D8	%	113	50-200	NA		NA		NA	
Acenaphthene-D10	%	113	50-200	NA		NA		NA	
Phenanthrone-D10	%	103	50-200	NA		NA		NA	
Chrysene-D12	%	100	50-200	NA		NA		NA	
Perylene-D12	%	114	50-200	NA		NA		NA	
Nitrobenzene-D5	%	55	37-120	NA		NA		NA	
2-Fluorobiphenyl	%	64	47-120	NA		NA		NA	
p-Terphenyl-d14	%	67	31-154	NA		NA		NA	
Phenol-D5	%	26	10-110	NA		NA		NA	
2-Fluorophenol	%	38	18-120	NA		NA		NA	
2,4,6-Tribromophenol	%	75	41-149	NA		NA		NA	

NA = Not Applicable   ND = Not Detected

STL Buffalo

Date: 01/27/2004  
Time: 08:51:49

ALLIED WASTE - WESTLAKE LANDFILL (MD)  
Westlake Landfill  
ALLIED - DIESEL RANGE ORGANICS - METHOD 8015B - W

Rept: AN0326

Client ID Job No Sample Date	Lab ID	DUPLICATE A03-C204 12/11/2003	A3C20401	PZ-302-AS A03-C204 12/11/2003	A3C20402	PZ-303-AS A03-C204 12/11/2003	A3C20403	PZ-304-AS A03-C204 12/11/2003	A3C20404
Analyte	Units	Sample Value	Reporting Limit						
Diesel Range Organics SURROGATE(S)	MG/L	ND	0.48	ND	0.48	14	0.97	0.52	0.48
o-Terphenyl	%	73	27-153	75	27-153	84	27-153	76	27-153

Client ID Job No Sample Date	Lab ID	PZ-304-AS A03-C204 12/11/2003	A3C20405						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Diesel Range Organics SURROGATE(S)	MG/L	0.85	0.50	NA		NA		NA	
o-Terphenyl	%	90	27-153	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

19/82

Date: 01/05/2004  
Time: 14:27:20

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
WEST LAKE - TOTAL METALS (S) - W

Rept: AN0326

Client ID Job No Sample Date	Lab ID	DUPPLICATE A03-C204 12/11/2003	A3C20401	PZ-302-AI A03-C204 12/11/2003	A3C20402	PZ-302-AS A03-C243 12/15/2003	A3C24301	PZ-303-AS A03-C204 12/11/2003	A3C20403
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	0.045	0.010	ND	0.010	0.25	0.010	0.12	0.010
Iron - Total	MG/L	36.0	0.050	1.7	0.050	103	0.050	104	0.050
Manganese - Total	MG/L	0.25	0.0030	0.19	0.0030	3.7	0.0030	2.2	0.0030

Client ID Job No Sample Date	Lab ID	PZ-304-AI A03-C204 12/11/2003	A3C20404	PZ-304-AS A03-C204 12/11/2003	A3C20405				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Arsenic - Total	MG/L	ND	0.010	0.18	0.010	NA		NA	
Iron - Total	MG/L	16.2	0.050	24.1	0.050	NA		NA	
Manganese - Total	MG/L	1.6	0.0030	0.12	0.0030	NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

20\82

Date: 01/05/2004  
Time: 14:27:23

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
WET CHEMISTRY ANALYSIS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	DUPLICATE A03-C204 12/11/2003	ASC20401	PZ-302-A1 A03-C204 12/11/2003	A3C20402	PZ-303-AS A03-C204 12/11/2003	A3C20403	PZ-304-A1 A03-C204 12/11/2003	A3C20404
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Chloride	MG/L	247	2.5	86.2	0.50	106	1.0	206	5.0
Fluoride	MG/L	0.30	0.10	0.27	0.050	0.18	0.10	0.28	0.10
Total Dissolved Solids	MG/L	1050	10	768	10	1210	10	1070	10

Client ID Job No Sample Date	Lab ID	PZ-304-AS A03-C204 12/11/2003	A3C20405						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Chloride	MG/L	283	5.0	NA		NA		NA	
Fluoride	MG/L	0.52	0.10	NA		NA		NA	
Total Dissolved Solids	MG/L	960	10	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

2182

22\82

## Chronology and QC Summary Package

Date: 01/27/2004  
Time: 08:50:26

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
WESTLAKE - 8260 25ML+ TCL VOLATILES - W(UNPRES)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	VBLK19 A03-C204	A3C20411	VBLK20 A03-C204	A3C20413	VBLK21 A03-C204	A3C20415	VBLK39 A03-C243	A3C24305
Analyte	Units	Sample Value	Reporting Limit						
Acetone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Benzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Bromodichloromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Bromoform	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Bromomethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
2-Butanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Carbon Disulfide	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Carbon Tetrachloride	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chloroform	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Chloromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Cyclohexane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2-Dibromoethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Dibromochloromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2-Dibromo-3-chloropropane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2-Dichlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,3-Dichlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,4-Dichlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Dichlorodifluoromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,1-Dichloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2-Dichloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,1-Dichloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
cis-1,2-Dichloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
trans-1,2-Dichloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2-Dichloropropane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
cis-1,3-Dichloropropene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
trans-1,3-Dichloropropene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Ethylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
2-Hexanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Isopropylbenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Methyl acetate	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Methylcyclohexane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Methylene chloride	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
4-Methyl-2-pentanone	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Methyl tert butyl ether	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Styrene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Tetrachloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Toluene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,2,4-Trichlorobenzene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,1,1-Trichloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
1,1,2-Trichloroethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0

NA = Not Applicable ND = Not Detected

STL Buffalo

2382

Date: 01/27/2004  
Time: 08:50:26

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
WESTLAKE - 8260 25HL- TCL VOLATILES - M(UNPRES)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	VBLK19 A03-C204	A3C20411	VBLK20 A03-C204	A3C20413	VBLK21 A03-C204	A3C20415	VBLK39 A03-C243	A3C24305
Analyte	Units	Sample Value	Reporting Limit						
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Trichlorofluoromethane	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Trichloroethene	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Vinyl acetate	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
Vinyl chloride	UG/L	ND	1.0	ND	1.0	ND	1.0	ND	1.0
Total Xylenes	UG/L	ND	5.0	ND	5.0	ND	5.0	ND	5.0
<u>IS/SURROGATE(S)</u>									
Chlorobenzene-D5	%	102	50-200	98	50-200	97	50-200	91	50-200
1,4-Difluorobenzene	%	102	50-200	96	50-200	97	50-200	97	50-200
1,4-Dichlorobenzene-D4	%	99	50-200	104	50-200	100	50-200	96	50-200
Toluene-D8	%	91	76-116	93	76-116	91	76-116	96	76-116
p-Bromofluorobenzene	%	97	73-117	105	73-117	104	73-117	93	73-117
1,2-Dichloroethane-D4	%	84	72-143	83	72-143	86	72-143	96	72-143

NA = Not Applicable    ND = Not Detected

STL Buffalo

24/82

Date: 01/27/2004  
Time: 08:50:26

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
WESTLAKE - 8260 25ML-TCL VOLATILES - W(CMPRES)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	VBLK40 A03-C243	A3C24307						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	NA		NA		NA	
Benzene	UG/L	ND	5.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	5.0	NA		NA		NA	
Bromoform	UG/L	ND	5.0	NA		NA		NA	
Bromomethane	UG/L	ND	5.0	NA		NA		NA	
Z-Butanone	UG/L	ND	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	ND	5.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	5.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	5.0	NA		NA		NA	
Chloroethane	UG/L	ND	5.0	NA		NA		NA	
Chloroform	UG/L	ND	5.0	NA		NA		NA	
Chloromethane	UG/L	ND	5.0	NA		NA		NA	
Cyclohexane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	ND	5.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	ND	5.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	5.0	NA		NA		NA	
2-Hexanone	UG/L	ND	5.0	NA		NA		NA	
Isopropylbenzene	UG/L	ND	5.0	NA		NA		NA	
Methyl acetate	UG/L	ND	5.0	NA		NA		NA	
Methylcyclohexane	UG/L	ND	5.0	NA		NA		NA	
Methylene chloride	UG/L	ND	5.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	NA		NA		NA	
Methyl tert butyl ether	UG/L	ND	5.0	NA		NA		NA	
Styrene	UG/L	ND	5.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	5.0	NA		NA		NA	
Toluene	UG/L	ND	5.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	5.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

25/82

Date: 01/27/2004  
Time: 08:50:26

ALLIED WASTE - WESTLAKE LANDFILL (ND)  
Westlake Landfill  
WESTLAKE - 8260 25ML- TCL VOLATILES - N(UNPRES)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	VBLK40 A03-C243	A3C24307						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	ND	5.0	NA		NA		NA	
Trichloroethene	UG/L	ND	5.0	NA		NA		NA	
Vinyl acetate	UG/L	ND	5.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	1.0	NA		NA		NA	
Total Xylenes	UG/L	ND	5.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	96	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	96	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	89	50-200	NA		NA		NA	
Toluene-D8	%	97	76-116	NA		NA		NA	
p-Bromofluorobenzene	%	85	73-117	NA		NA		NA	
1,2-Dichloroethane-D4	%	91	72-143	NA		NA		NA	

NA = Not Applicable   ND = Not Detected

STL Buffalo

26/82

Date: 01/27/2004  
Time: 08:50:26

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
WESTLAKE - B260 25ML- TCL VOLATILES - W(UNPRES)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	MSB19 A03-C204	A3C20412	MSB20 A03-C204	A3C20414	MSB21 A03-C204	A3C20416	MSB39 A03-C243	A3C24306
Analyte	Units	Sample Value	Reporting Limit						
Acetone	UG/L	40	5.0	ND	5.0	ND	5.0	45	5.0
Benzene	UG/L	9.5	5.0	9.8	5.0	9.4	5.0	9.6	5.0
Bromodichloromethane	UG/L	9.2	5.0	ND	5.0	ND	5.0	9.5	5.0
Bromoform	UG/L	10	5.0	ND	5.0	ND	5.0	9.2	5.0
Bromomethane	UG/L	7.2	5.0	ND	5.0	ND	5.0	8.8	5.0
2-Butanone	UG/L	39	5.0	ND	5.0	ND	5.0	43	5.0
Carbon Disulfide	UG/L	7.9	5.0	ND	5.0	ND	5.0	9.4	5.0
Carbon Tetrachloride	UG/L	8.8	5.0	ND	5.0	ND	5.0	9.3	5.0
Chlorobenzene	UG/L	9.7	5.0	10	5.0	9.6	5.0	8.9	5.0
Chloroethane	UG/L	7.4	5.0	ND	5.0	ND	5.0	9.5	5.0
Chloroform	UG/L	8.6	5.0	ND	5.0	ND	5.0	9.3	5.0
Chloromethane	UG/L	8.1	5.0	ND	5.0	ND	5.0	8.6	5.0
Cyclohexane	UG/L	8.0	5.0	ND	5.0	ND	5.0	9.0	5.0
1,2-Dibromoethane	UG/L	10	5.0	ND	5.0	ND	5.0	9.1	5.0
Dibromochloromethane	UG/L	10	5.0	ND	5.0	ND	5.0	9.2	5.0
1,2-Dibromo-3-chloropropane	UG/L	9.5	5.0	ND	5.0	ND	5.0	8.7	5.0
1,2-Dichlorobenzene	UG/L	9.9	5.0	ND	5.0	ND	5.0	9.4	5.0
1,3-Dichlorobenzene	UG/L	9.1	5.0	ND	5.0	ND	5.0	9.3	5.0
1,4-Dichlorobenzene	UG/L	9.4	5.0	ND	5.0	ND	5.0	9.4	5.0
Dichlorodifluoromethane	UG/L	6.4	5.0	ND	5.0	ND	5.0	8.6	5.0
1,1-Dichloroethane	UG/L	9.1	5.0	ND	5.0	ND	5.0	9.5	5.0
1,2-Dichloroethane	UG/L	8.3	5.0	ND	5.0	ND	5.0	9.2	5.0
1,1-Dichloroethene	UG/L	9.9	5.0	11	5.0	9.8	5.0	9.8	5.0
cis-1,2-Dichloroethene	UG/L	9.7	5.0	ND	5.0	ND	5.0	9.6	5.0
trans-1,2-Dichloroethene	UG/L	9.9	5.0	ND	5.0	ND	5.0	9.8	5.0
1,2-Dichloropropene	UG/L	9.4	5.0	ND	5.0	ND	5.0	9.4	5.0
cis-1,3-Dichloropropene	UG/L	9.1	5.0	ND	5.0	ND	5.0	9.5	5.0
trans-1,3-Dichloropropene	UG/L	9.3	5.0	ND	5.0	ND	5.0	9.3	5.0
Ethylbenzene	UG/L	9.3	5.0	ND	5.0	ND	5.0	9.2	5.0
Z-Hexanone	UG/L	39	5.0	ND	5.0	ND	5.0	42	5.0
Isopropylbenzene	UG/L	9.5	5.0	ND	5.0	ND	5.0	9.6	5.0
Methyl acetate	UG/L	8.2	5.0	ND	5.0	ND	5.0	8.9	5.0
Methylcyclohexane	UG/L	8.8	5.0	ND	5.0	ND	5.0	9.0	5.0
Methylene chloride	UG/L	8.4	5.0	ND	5.0	ND	5.0	9.3	5.0
4-Methyl-2-pentanone	UG/L	38	5.0	ND	5.0	ND	5.0	42	5.0
Methyl tert butyl ether	UG/L	8.2	5.0	ND	5.0	ND	5.0	8.8	5.0
Styrene	UG/L	10	5.0	ND	5.0	ND	5.0	9.1	5.0
1,1,2,2-Tetrachloroethane	UG/L	10	5.0	ND	5.0	ND	5.0	9.4	5.0
Tetrachloroethene	UG/L	10	5.0	ND	5.0	ND	5.0	9.3	5.0
Toluene	UG/L	9.6	5.0	10	5.0	9.5	5.0	8.9	5.0
1,2,4-Trichlorobenzene	UG/L	12	5.0	ND	5.0	ND	5.0	8.9	5.0
1,1,1-Trichloroethane	UG/L	8.7	5.0	ND	5.0	ND	5.0	9.3	5.0
1,1,2-Trichloroethene	UG/L	9.8	5.0	ND	5.0	ND	5.0	9.3	5.0

NA = Not Applicable ND = Not Detected

STL Buffalo

27182

Date: 01/27/2004  
Time: 08:50:26

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
WESTLAKE - 8260 25NL-TCL VOLATILES - W(UNPRES)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	MSB19 A03-C204	A3C20412	MSB20 A03-C204	A3C20414	MSB21 A03-C204	A3C20416	MSB39 A03-C243	A3C24306
Analyte	Units	Sample Value	Reporting Limit						
1,1,2-Trichloro-1,2,2-trifluor Trichlorofluoromethane	UG/L	9.2	5.0	ND	5.0	ND	5.0	9.6	5.0
Trichloroethene	UG/L	7.7	5.0	ND	5.0	ND	5.0	8.9	5.0
Vinyl acetate	UG/L	9.4	5.0	9.8	5.0	9.2	5.0	9.3	5.0
Vinyl chloride	UG/L	.38	5.0	ND	5.0	ND	5.0	.45	5.0
Total Xylenes	UG/L	7.6	1.0	ND	1.0	ND	1.0	9.1	1.0
IS/SURROGATE(S)									
Chlorobenzene-D5	%	103	50-200	93	50-200	97	50-200	100	50-200
1,4-Difluorobenzene	%	104	50-200	91	50-200	100	50-200	99	50-200
1,4-Dichlorobenzene-D6	%	103	50-200	93	50-200	99	50-200	100	50-200
Toluene-D8	%	93	76-116	91	76-116	92	76-116	94	76-116
p-Bromofluorobenzene	%	97	73-117	100	73-117	102	73-117	93	73-117
1,2-Dichloroethane-D4	%	83	72-143	83	72-143	81	72-143	93	72-143

NA = Not Applicable ND = Not Detected

STL Buffalo

Date: 01/27/2004  
Time: 08:50:26

ALLIED WASTE - WESTLAKE LANDFILL (MU)  
Westlake Landfill  
WESTLAKE - 8260 25ML - TCL VOLATILES - H(UNPRES)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	MSB40 A03-C243	A3C24308						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	NA		NA		NA	
Benzene	UG/L	9.6	5.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	5.0	NA		NA		NA	
Bromoform	UG/L	ND	5.0	NA		NA		NA	
Bromomethane	UG/L	ND	5.0	NA		NA		NA	
2-Butanone	UG/L	ND	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	ND	5.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	5.0	NA		NA		NA	
Chlorobenzene	UG/L	8.8	5.0	NA		NA		NA	
Chloroethane	UG/L	ND	5.0	NA		NA		NA	
Chloroform	UG/L	ND	5.0	NA		NA		NA	
Chloromethane	UG/L	ND	5.0	NA		NA		NA	
Cyclohexane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	ND	5.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	ND	5.0	NA		NA		NA	
1,1-Dichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	10	5.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	5.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	5.0	NA		NA		NA	
2-Hexanone	UG/L	ND	5.0	NA		NA		NA	
Isopropylbenzene	UG/L	ND	5.0	NA		NA		NA	
Methyl acetate	UG/L	ND	5.0	NA		NA		NA	
Methylcyclohexane	UG/L	ND	5.0	NA		NA		NA	
Methylene chloride	UG/L	ND	5.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	NA		NA		NA	
Methyl tert butyl ether	UG/L	ND	5.0	NA		NA		NA	
Styrene	UG/L	ND	5.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	5.0	NA		NA		NA	
Toluene	UG/L	9.7	5.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	5.0	NA		NA		NA	

NA = Not Applicable   ND = Not Detected

STL Buffalo

29/82

Date: 11/19/2004  
Time: 08:50:26

ALLIED WASTE - WESTLAKE LANDFILL (MD)  
Westlake Landfill  
WESTLAKE - 8200 25ML- TCL VOLATILES - W(UNPRES)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	MSB40 A03-C243	A3C24308						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor Trichlorofluoromethane	UG/L	ND	5.0	NA		NA		NA	
Trichloroethene	UG/L	ND	5.0	NA		NA		NA	
Vinyl acetate	UG/L	9.3	5.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	5.0	NA		NA		NA	
Total Xylenes	UG/L	ND	1.0	NA		NA		NA	
IS/SURROGATE(S)	UG/L	ND	5.0	NA		NA		NA	
Chlorobenzene-D5	%	97	50-200	NA		NA		NA	
1,4-Difluorobenzene	X	98	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	X	99	50-200	NA		NA		NA	
Toluene-D8	X	96	76-116	NA		NA		NA	
p-Bromofluorobenzene	X	81	73-117	NA		NA		NA	
1,2-Dichloroethane-D4	X	86	72-143	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

30/82

Date: 01/27/2004  
Time: 08:50:26

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
WESTLAKE - 8260 25NL - TCL VOLATILES - W(UNPRES)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	TRIP BLANK A03-C204 12/11/2003	A3C20407						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Acetone	UG/L	ND	5.0	NA		NA		NA	
Benzene	UG/L	ND	5.0	NA		NA		NA	
Bromodichloromethane	UG/L	ND	5.0	NA		NA		NA	
Bromoform	UG/L	ND	5.0	NA		NA		NA	
Bromomethane	UG/L	ND	5.0	NA		NA		NA	
2-Butanone	UG/L	ND	5.0	NA		NA		NA	
Carbon Disulfide	UG/L	ND	5.0	NA		NA		NA	
Carbon Tetrachloride	UG/L	ND	5.0	NA		NA		NA	
Chlorobenzene	UG/L	ND	5.0	NA		NA		NA	
Chloroethane	UG/L	ND	5.0	NA		NA		NA	
Chloroform	UG/L	ND	5.0	NA		NA		NA	
Chloromethane	UG/L	ND	5.0	NA		NA		NA	
Cyclohexane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dibromoethane	UG/L	ND	5.0	NA		NA		NA	
Dibromochloromethane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dibromo-3-chloropropane	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,3-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,4-Dichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
Dichlorodifluoromethane	UG/L	ND	5.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,1-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
cis-1,2-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
trans-1,2-Dichloroethene	UG/L	ND	5.0	NA		NA		NA	
1,2-Dichloropropane	UG/L	ND	5.0	NA		NA		NA	
cis-1,3-Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
trans-1,3-Dichloropropene	UG/L	ND	5.0	NA		NA		NA	
Ethylbenzene	UG/L	ND	5.0	NA		NA		NA	
2-Hexanone	UG/L	ND	5.0	NA		NA		NA	
Isopropylbenzene	UG/L	ND	5.0	NA		NA		NA	
Methyl acetate	UG/L	ND	5.0	NA		NA		NA	
Methylcyclohexane	UG/L	ND	5.0	NA		NA		NA	
Methylene chloride	UG/L	ND	5.0	NA		NA		NA	
4-Methyl-2-pentanone	UG/L	ND	5.0	NA		NA		NA	
Methyl tert butyl ether	UG/L	ND	5.0	NA		NA		NA	
Styrene	UG/L	ND	5.0	NA		NA		NA	
1,1,2,2-Tetrachloroethane	UG/L	ND	5.0	NA		NA		NA	
Tetrachloroethene	UG/L	ND	5.0	NA		NA		NA	
Toluene	UG/L	ND	5.0	NA		NA		NA	
1,2,4-Trichlorobenzene	UG/L	ND	5.0	NA		NA		NA	
1,1,1-Trichloroethane	UG/L	ND	5.0	NA		NA		NA	
1,1,2-Trichloroethane	UG/L	ND	5.0	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

31/82

Date: 01/27/2004  
Time: 08:50:26

ALLIED WASTE - WESTLAKE LANDFILL (NO)  
Westlake Landfill  
WESTLAKE - 8260 25ML TCL VOLATILES - N(UNPRES)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	TRIP BLANK A03-C204 12/11/2003	A3C20407						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
1,1,2-Trichloro-1,2,2-trifluor	UG/L	ND	5.0	NA		NA		NA	
Trichlorofluoromethane	UG/L	ND	5.0	NA		NA		NA	
Trichloroethene	UG/L	ND	5.0	NA		NA		NA	
Vinyl acetate	UG/L	ND	5.0	NA		NA		NA	
Vinyl chloride	UG/L	ND	1.0	NA		NA		NA	
Total Xylenes	UG/L	ND	5.0	NA		NA		NA	
IS/SURROGATE(S)									
Chlorobenzene-D5	%	104	50-200	NA		NA		NA	
1,4-Difluorobenzene	%	104	50-200	NA		NA		NA	
1,4-Dichlorobenzene-D4	%	103	50-200	NA		NA		NA	
Toluene-D8	%	88	76-116	NA		NA		NA	
p-Bromofluorobenzene	%	97	73-117	NA		NA		NA	
1,2-Dichloroethane-D4	%	86	72-143	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

32/82

Date: 01/27/2004  
Time: 09:02:07

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
ALLIED - GASOLINE RANGE ORGANICS-8015B-W (UWPRES)

Rept: AN0326

Client ID Job No Sample Date		VBLK091 A03-C204		A3C20408		VBLK149 A03-C243		A3C24302			
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Gasoline Range Organics SURROGATE(S)	MG/L	ND	0.050	ND	0.050	NA		NA		NA	
e,e,e-Trifluorotoluene	%	131	71-138	130	71-138	NA		NA		NA	

NA = Not Applicable   ND = Not Detected

STL Buffalo

33/82

Date: 01/27/2004  
Time: 09:02:07

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
ALLIED - GASOLINE RANGE ORGANICS-B015B-W (UNPRES)

Rept: AN0326

Client ID Job No Sample Date	Lab ID	LCS A03-C243	A3C24303	LCSD A03-C243	A3C24304	MSB A03-C204	A3C20409	MSBD A03-C204	A3C20410
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Gasoline Range Organics SURROGATE(S)	MG/L	0.20	0.050	0.20	0.050	0.20	0.050	0.20	0.050
a,a,a-Trifluorotoluene	%	134	71-138	133	71-138	134	71-138	134	71-138

NA = Not Applicable ND = Not Detected

STL Buffalo

34/82

Date: 01/27/2004  
Time: 00:59:18

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AND326

Client ID Job No Sample Date	Lab ID	Method Blank AD3-C204	A381437902						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Phenol	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/L	ND	10	NA		NA		NA	
2-Chlorophenol	UG/L	ND	10	NA		NA		NA	
2-Methylphenol	UG/L	ND	10	NA		NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	10	NA		NA		NA	
6-Methylphenol	UG/L	ND	10	NA		NA		NA	
N-Nitroso-Di-n-propylamine	UG/L	ND	10	NA		NA		NA	
Hexachloroethane	UG/L	ND	10	NA		NA		NA	
Nitrobenzene	UG/L	ND	10	NA		NA		NA	
Isophorone	UG/L	ND	10	NA		NA		NA	
2-Nitrophenol	UG/L	ND	10	NA		NA		NA	
2,4-Dimethylphenol	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/L	ND	10	NA		NA		NA	
2,4-Dichlorophenol	UG/L	ND	10	NA		NA		NA	
Naphthalene	UG/L	ND	10	NA		NA		NA	
4-Chloroaniline	UG/L	ND	10	NA		NA		NA	
Hexachlorobutadiene	UG/L	ND	10	NA		NA		NA	
4-Chloro-3-methylphenol	UG/L	ND	10	NA		NA		NA	
2-Methylnaphthalene	UG/L	ND	10	NA		NA		NA	
Hexachlorocyclopentadiene	UG/L	ND	24	NA		NA		NA	
2,4,6-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
2,4,5-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
2-Chloronaphthalene	UG/L	ND	10	NA		NA		NA	
2-Nitroaniline	UG/L	ND	50	NA		NA		NA	
Dimethyl phthalate	UG/L	ND	10	NA		NA		NA	
Acenaphthylene	UG/L	ND	10	NA		NA		NA	
3-Nitroaniline	UG/L	ND	50	NA		NA		NA	
Acenaphthene	UG/L	ND	10	NA		NA		NA	
2,4-Dinitrophenol	UG/L	ND	50	NA		NA		NA	
4-Nitrophenol	UG/L	ND	50	NA		NA		NA	
Dibenzofuran	UG/L	ND	10	NA		NA		NA	
2,4-Dinitrotoluene	UG/L	ND	10	NA		NA		NA	
Diethyl phthalate	UG/L	ND	10	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Fluorene	UG/L	ND	10	NA		NA		NA	
4-Nitroaniline	UG/L	ND	50	NA		NA		NA	
4,6-Dinitro-2-methylphenol	UG/L	ND	50	NA		NA		NA	
N-nitrosodiphenylamine	UG/L	ND	10	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Hexachlorobenzene	UG/L	ND	10	NA		NA		NA	
Pentachlorophenol	UG/L	ND	50	NA		NA		NA	
Phenanthrene	UG/L	ND	10	NA		NA		NA	
Anthracene	UG/L	ND	10	NA		NA		NA	

NA = Not Applicable   ND = Not Detected

STL Buffalo

35/82

Date: 01/27/2004  
Time: 08:51:18

ALLIED WASTE - WESTLAKE LANDFILL (HO)  
Westlake Landfill  
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Method Blank A03-C204		A381637902							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Di-n-butyl phthalate	UG/L	ND	10	NA		NA		NA		NA	
Fluoranthene	UG/L	ND	10	NA		NA		NA		NA	
Pyrene	UG/L	ND	10	NA		NA		NA		NA	
Butyl benzyl phthalate	UG/L	ND	10	NA		NA		NA		NA	
3,3'-Dichlorobenzidine	UG/L	ND	20	NA		NA		NA		NA	
Benzo(e)anthracene	UG/L	ND	10	NA		NA		NA		NA	
Chrysene	UG/L	ND	10	NA		NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/L	ND	10	NA		NA		NA		NA	
Di-n-octyl phthalate	UG/L	ND	10	NA		NA		NA		NA	
Benzo(b)fluoranthene	UG/L	ND	10	NA		NA		NA		NA	
Benzo(k)fluoranthene	UG/L	ND	10	NA		NA		NA		NA	
Benzo(a)pyrene	UG/L	ND	10	NA		NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	NA		NA		NA		NA	
Dibenzof(a,h)anthracene	UG/L	ND	10	NA		NA		NA		NA	
Benzo(ghi)perylene	UG/L	ND	10	NA		NA		NA		NA	
2,6-Dinitrotoluene	UG/L	ND	10	NA		NA		NA		NA	
IS/SURROGATE(S)											
1,4-Dichlorobenzene-D4	%	100	50-200	NA		NA		NA		NA	
Naphthalene-D8	%	101	50-200	NA		NA		NA		NA	
Acenaphthene-D10	%	96	50-200	NA		NA		NA		NA	
Phenanthrene-D10	%	104	50-200	NA		NA		NA		NA	
Chrysene-D12	%	107	50-200	NA		NA		NA		NA	
Perylene-D12	%	129	50-200	NA		NA		NA		NA	
Nitrobenzene-D5	%	66	37-120	NA		NA		NA		NA	
2-Fluorobiphenyl	%	75	47-120	NA		NA		NA		NA	
p-Terphenyl-d14	%	94	31-154	NA		NA		NA		NA	
Phanol-D5	%	32	10-110	NA		NA		NA		NA	
2-Fluorophenol	%	47	18-120	NA		NA		NA		NA	
2,4,6-Tribromophenol	%	91	41-149	NA		NA		NA		NA	

NA = Not Applicable   ND = Not Detected

STL Buffalo

36/82

Date: 01/27/2004  
Time: 13:58:39

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

Analyte	Units	Sample Value	Reporting Limit						
Phenol	UG/L	44	10	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/L	82	10	NA		NA		NA	
2-Chlorophenol	UG/L	83	10	NA		NA		NA	
2-Methylphenol	UG/L	81	10	NA		NA		NA	
2,2'-Oxybis(1-chloropropane)	UG/L	81	10	NA		NA		NA	
4-Methylphenol	UG/L	78	10	NA		NA		NA	
N-Nitroso-Di-n-propylamine	UG/L	87	10	NA		NA		NA	
Hexachloroethane	UG/L	56	10	NA		NA		NA	
Mitrobenzene	UG/L	76	10	NA		NA		NA	
Isophorone	UG/L	83	10	NA		NA		NA	
2-Nitrophenol	UG/L	91	10	NA		NA		NA	
2,4-Dimethylphenol	UG/L	89	10	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/L	85	10	NA		NA		NA	
2,4-Dichlorophenol	UG/L	99	10	NA		NA		NA	
Naphthalene	UG/L	84	10	NA		NA		NA	
4-Chloroaniline	UG/L	93	10	NA		NA		NA	
Hexachlorobutadiene	UG/L	63	10	NA		NA		NA	
4-Chloro-3-methylphenol	UG/L	99	10	NA		NA		NA	
2-Methylnaphthalene	UG/L	89	10	NA		NA		NA	
Hexachlorocyclopentadiene	UG/L	42	24	NA		NA		NA	
2,4,6-Trichlorophenol	UG/L	100	10	NA		NA		NA	
2,4,5-Trichlorophenol	UG/L	100	10	NA		NA		NA	
2-chloronaphthalene	UG/L	89	10	NA		NA		NA	
2-Nitroaniline	UG/L	100	50	NA		NA		NA	
Dimethyl phthalate	UG/L	110	10	NA		NA		NA	
Acenaphthylene	UG/L	97	10	NA		NA		NA	
3-Nitroaniline	UG/L	110	50	NA		NA		NA	
Acenaphthene	UG/L	96	10	NA		NA		NA	
2,4-Dinitrophenol	UG/L	76	50	NA		NA		NA	
4-Nitrophenol	UG/L	ND	50	NA		NA		NA	
Dibenzofuran	UG/L	100	10	NA		NA		NA	
2,4-Dinitrotoluene	UG/L	110	10	NA		NA		NA	
Diethyl phthalate	UG/L	100	10	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/L	110	10	NA		NA		NA	
Fluorene	UG/L	110	10	NA		NA		NA	
4-Nitroaniline	UG/L	120	50	NA		NA		NA	
4,6-Dinitro-2-methylphenol	UG/L	99	50	NA		NA		NA	
N-nitrosodiphenylamine	UG/L	100	10	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/L	110	10	NA		NA		NA	
Hexachlorobenzene	UG/L	100	10	NA		NA		NA	
Pentachlorophenol	UG/L	110	50	NA		NA		NA	
Phenanthrene	UG/L	110	10	NA		NA		NA	
Anthracene	UG/L	100	10	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

37/82

Date: 07/27/2004  
Time: 08:51:18

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A03-C204 A3B1437901							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Di-n-butyl phthalate	UG/L	100	10	NA		NA		NA	
Fluoranthene	UG/L	110	10	NA		NA		NA	
Pyrene	UG/L	110	10	NA		NA		NA	
Butyl benzyl phthalate	UG/L	100	10	NA		NA		NA	
3,3'-Dichlorobenzidine	UG/L	130	20	NA		NA		NA	
Benzo(a)anthracene	UG/L	110	10	NA		NA		NA	
Chrysene	UG/L	94	10	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/L	96	10	NA		NA		NA	
Di-n-octyl phthalate	UG/L	100	10	NA		NA		NA	
Benzot(b)fluoranthene	UG/L	100	10	NA		NA		NA	
Benzo(k)fluoranthene	UG/L	100	10	NA		NA		NA	
Benzo(a)pyrene	UG/L	100	10	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	100	10	NA		NA		NA	
Dibenzo(a,h)anthracene	UG/L	93	10	NA		NA		NA	
Benzo(ghi)perylene	UG/L	97	10	NA		NA		NA	
2,6-Dinitrotoluene	UG/L	110	10	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-D6	X	94	50-200	NA		NA		NA	
Naphthalene-D8	X	94	50-200	NA		NA		NA	
Acenaphthene-D10	X	91	50-200	NA		NA		NA	
Phenanthrene-D10	X	91	50-200	NA		NA		NA	
Chrysene-D12	X	99	50-200	NA		NA		NA	
Perylene-D12	X	121	50-200	NA		NA		NA	
Nitrobenzene-D5	X	79	37-120	NA		NA		NA	
2-Fluorobiphenyl	X	92	47-120	NA		NA		NA	
p-Terphenyl-d14	X	102	31-154	NA		NA		NA	
Phenol-D5	X	35	10-110	NA		NA		NA	
2-Fluorophenol	X	50	10-120	NA		NA		NA	
2,4,6-Tribromophenol	X	105	41-149	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

38/87

Date: 01/27/2004  
Time: 08:51:49

ALLIED WASTE - WESTLAKE LANDFILL (NO)  
Westlake Landfill  
ALLIED - DIESEL RANGE ORGANICS - METHOD 8015B - W

Rept: AN0326

Client ID Job No Sample Date		Lab ID Method Blank A03-C204 A381437803							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Diesel Range Organics SURROGATE(S)	MG/L	ND	0.50	NA		NA		NA	
o-Terphenyl	X	96	27-153	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

39/82

Date: 01/27/2004  
Time: 08:51:49

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
ALLIED - DIESEL RANGE ORGANICS - METHOD 8015B - W

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A03-C204 A381437801		Matrix Spike Blk Dup A03-C204 A381437802					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Diesel Range Organics SURROGATE(S)	MG/L	1.2	0.50	1.3	0.50	NA		NA	
o-Terphenyl	%	70	27-153	80	27-153	NA		NA	

NA = Not Applicable    ND = Not Detected

STL Buffalo

40/82

Date: 01/05/2004  
Time: 14:28:01

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
WEST LAKE - TOTAL METALS (3) - V

Rept: AN0326

Client ID Job No Sample Date		Method Blank AO3-C204 A3B1441302		Method Blank AO3-C243 A3B1447502					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Iron - Total	MG/L	ND	0.050	ND	0.050	NA		NA	
Arsenic - Total	MG/L	ND	0.010	ND	0.010	NA		NA	
Manganese - Total	MG/L	ND	0.0030	ND	0.0030	NA		NA	

NA = Not Applicable   ND = Not Detected

STL Buffalo

4182

Date: 01/05/2004  
Time: 14:28:01

ALLIED WASTE - WESTLAKE LANDFILL (R0)  
Westlake Landfill  
WEST LAKE - TOTAL METALS (3) - M

Rept: AN0326

Client ID Job No Sample Date		LFB A03-C204      A3B1441301		LFB A03-C243      A3B1447501					
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Manganese - Total	MG/L	0.21	0.0030	0.19	0.0030	NA		NA	
Arsenic - Total	MG/L	0.21	0.010	0.19	0.010	NA		NA	
Iron - Total	MG/L	0.44	0.050	0.40	0.050	NA		NA	

42\82

NA = Not Applicable   ND = Not Detected

SIL Buffalo

Date: 01/05/2004  
Time: 14:28:03

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
WET CHEMISTRY ANALYSIS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Method Blank A03-C204	A3B1447102	Method Blank A03-C204	A3B1486602	Method Blank A03-C204	A3B1494002	Method Blank A03-C204	A3B1497102
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Total Dissolved Solids	MG/L	ND	10	NA		NA		NA	
Chloride	MG/L	NA		ND		ND		ND	
Fluoride	MG/L	NA		ND		NA		NA	

NA = Not Applicable    ND = Not Detected

STL Buffalo

43\182

Date: 01/05/2004  
Time: 14:28:03

ALLIED WASTE - WESTLAKE LANDFILL (HQ)  
Westlake Landfill  
WET CHEMISTRY ANALYSIS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	LCS A03-C204	A381447101	LCS A03-C204	A381486601	LCS A03-C204	A381494001	LCS A03-C204	A381497101
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Total Dissolved Solids	MG/L	496	10	NA	0.50	NA	0.50	NA	0.50
Chloride	MG/L	NA		9.7	0.50	9.9	0.50	10.1	
Fluoride	MG/L	NA		0.91	0.050	NA		NA	

NA = Not Applicable    ND = Not Detected

STL Buffalo

44\82

Date : 01/05/2004 14:28:06  
Job Nos: A03-C204

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AN0364

SDG: C204  
Client Sample ID: VBLX19  
Lab Sample ID: A3C20412

MSB19  
A3C20412

Analyte	Units of Measure	Concentration		% Recovery Blank Spike	QC LIMITS
		Blank Spike	Spike Amount		
WESTLAKE - 8260 25ML- TCL VOLATILES - W	UG/L	9.93	10.0	99	65-138
1,1-Dichloroethene	UG/L	9.36	10.0	94	71-123
Trichloroethene	UG/L	9.50	10.0	95	71-126
Benzene	UG/L	9.60	10.0	96	70-122
Toluene	UG/L	9.72	10.0	97	72-120
Chlorobenzene	UG/L				

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

STL Buffalo

45\82

Date : 01/05/2004 14:28:06  
Job No: A03-C204

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AN0364

SDG: C204  
Client Sample ID: VOLK20  
Lab Sample ID: A3c20414

MSBZ0  
A3c20414

Analyte	Units of Measure	Concentration		% Recovery Blank Spike	QC LIMITS
		Blank	Spike		
WESTLAKE - 8260 25ML TCL VOLATILES - M*	UG/L	10.7	10.0	107	65-138
1,1-Dichloroethene	UG/L	9.83	10.0	98	71-123
Trichloroethene	UG/L	9.83	10.0	98	71-124
Benzene	UG/L	10.3	10.0	103	70-122
Toluene	UG/L	10.1	10.0	101	72-120
Chlorobenzene	UG/L				

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

SIL Buffalo

4682

Date : 01/05/2004 16:28:06  
Job No: A03-C204

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AN0364

SD6: C204  
Client Sample ID: WBULK21  
Lab Sample ID: A3C20415

MSB21  
A3C20416

Analyte	Units of Measure	Concentration		% Recovery Blank Spike	QC LIMITS
		Blank	Spike Amount		
WESTLAKE - 8260 25ML- TEL VOLATILES - W6	UG/L	9.75	10.0	98	65-138
1,1-Dichloroethene	UG/L	9.16	10.0	92	71-123
Trichloroethene	UG/L	9.41	10.0	94	71-124
Benzene	UG/L	9.52	10.0	95	70-122
Toluene	UG/L	9.65	10.0	96	72-120
Chlorobenzene	UG/L				

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

STL Buffalo

47\82

Date : 01/05/2004 14:28:06  
Job No: A03-C243

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AM0364

S06: C204  
Client Sample ID: VBLK39  
Lab Sample ID: A3C24305

MSB39  
A3C24306

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	X Recovery Blank Spike	QC LIMITS
WESTLAKE - 8260 25ML- TCL VOLATILES - W					
1,1-Dichloroethene	UG/L	9.78	10.0	98	65-138
Trichloroethene	UG/L	9.30	10.0	93	71-123
Benzene	UG/L	9.39	10.0	94	71-124
Toluene	UG/L	8.94	10.0	89	70-122
Chlorobenzene	UG/L	8.88	10.0	89	72-120

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

STL Buffalo

48\82

Date : 01/05/2004 14:28:06  
Job No: A03-C243

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AN0364

SOG: C204  
Client Sample ID: VBLK40  
Lab Sample ID: A3C24307

MSB40  
A3C24308

Analyte	Units of Measure	Concentration		% Recovery Blank Spike	QC LIMITS
		Blank Spike	Spike Amount		
WESTLAKE - 8260 25ML- TCL VOLATILES - M	UG/L	10.3	10.0	104	65-138
1,1-Dichloroethene	UG/L	9.31	10.0	93	71-123
Trichloroethene	UG/L	9.63	10.0	96	71-124
Benzene	UG/L	9.70	10.0	97	70-122
Toluene	UG/L	8.75	10.0	88	72-120
Chlorobenzene	UG/L				

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

STL Buffalo

4982

Date : 01/05/2004 14:28:09  
Job No: A03-C204

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AN0364

SDG: C204  
Client Sample ID: VBLK091  
Lab Sample ID: A3C20408

MSB  
A3C20409

NSBD  
A3C20410

Analyte	Units of Measure	Concentration			X Recovery			QC LIMITS		
		Spike Blank	Spike Blank Dup	SB	SBD	SB	SBD	Avg	X RPD	RPD
ALLIED - GASOLINE RANGE ORGANICS-801SB-W Gasoline Range Organics	MG/L	0.204	0.201	0.200	0.200	102	100	101	2	30.0 62-126

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

STL Buffalo

50\82

Date : 01/05/2004 14:28:09  
Job No: A03-C243

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AND364

SDG: C204  
Client Sample ID: VBLK149  
Lab Sample ID: A3C24302

LCS  
A3C24303

LCSD  
A3C24304

Analyte	Units of Measure	Concentration			Spike Amount			% Recovery			QC LIMITS	
		Spike Blank	Spike Blank Dup	SB	SB	SB	SB	Avg	% RPD	RPD	REC.	
ALLIED - GASOLINE RANGE ORGANICS-8015B-V Gasoline Range Organics	MG/L	0.199	0.200	0.200	0.200	100	100	100	0	30.0	62-126	

51\82

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

STL Buffalo

Date : 01/05/2004 14:28:12  
Job No: A03-C204

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AN0364

SDG: C204

Client Sample ID: Method Blank  
Lab Sample ID: A3B1437901

Matrix Spike Blank  
A3B1437901

Analyte	Units of Measure	Concentration		X Recovery	QC
		Blank	Spike	Blank Spike	LIMITS
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS					
Acenaphthene	UG/L	95.6	100	96	52-120
Acenaphthylene	UG/L	97.1	100	97	57-120
Anthracene	UG/L	105	100	106	71-126
Benz(a)anthracene	UG/L	111	100	112	74-133
Benz(b)fluoranthene	UG/L	99.5	100	100	62-138
Benz(k)fluoranthene	UG/L	105	100	105	63-136
Benz(ghi)perylene	UG/L	96.8	100	97	42-160
Benz(a)pyrene	UG/L	105	100	106	72-126
Bis(2-chloroethoxy) ethane	UG/L	85.0	100	85	57-120
Bis(2-chloroethyl) ether	UG/L	82.5	100	82	47-120
2,2'-Oxybis(1-chloropropane)	UG/L	80.7	100	81	39-120
Bis(2-ethylhexyl) phthalate	UG/L	95.6	100	95	64-185
4-Etronophenyl phenyl ether	UG/L	106	100	107	66-130
Butyl benzyl phthalate	UG/L	100	100	101	64-144
4-chloroaniline	UG/L	93.4	100	93	57-125
4-Chloro-3-methylphenol	UG/L	98.6	100	99	53-123
2-Chloronaphthalene	UG/L	89.3	100	89	49-112
2-Chlorophenol	UG/L	82.7	100	83	40-120
4-Chlorophenyl phenyl ether	UG/L	109	100	110	59-125
Chrysene	UG/L	94.0	100	94	76-133
Dibenz(a,h)anthracene	UG/L	92.9	100	93	50-140
Dibenzofuran	UG/L	99.9	100	100	59-120
Di-n-butyl phthalate	UG/L	100	100	100	68-136
3,3'-Dichlorobenzidine	UG/L	126	100	126	63-160
2,4-Dichlorophenol	UG/L	97.9	100	98	57-120
Diethyl phthalate	UG/L	104	100	104	68-160
2,4-Dimethylphenol	UG/L	89.0	100	89	53-124
Diethyl phthalate	UG/L	107	100	107	70-132
4,6-Dinitro-2-methylphenol	UG/L	98.6	100	99	56-144
2,4-Dinitrophenol	UG/L	76.3	100	76	32-147
2,4-Dinitrotoluene	UG/L	108	100	109	52-130
2,6-Dinitrotoluene	UG/L	110	100	110	74-135
Di-n-octyl phthalate	UG/L	104	100	104	68-153
Fluoranthene	UG/L	106	100	107	67-134
Fluorene	UG/L	112	100	113	61-123
Hexachlorobenzene	UG/L	101	100	102	39-132
Hexachlorobutadiene	UG/L	63.0	100	63	10-120
Hexachlorocyclopentadiene	UG/L	42.0	100	42	4-120
Hexachloroethane	UG/L	55.7	100	56	10-120
Indeno(1,2,3-cd)pyrene	UG/L	99.6	100	100	52-148
Isophorone	UG/L	82.7	100	83	44-120
2-Methylnaphthalene	UG/L	89.2	100	89	41-120
2-Methylphenol	UG/L	81.3	100	81	28-125

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

52/82

STL Buffalo

Date : 01/05/2004 14:28:12  
Job No: A03-C204

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AN0364

SDG: C204  
Client Sample ID: Method Blank  
Lab Sample ID: A3B1437902

Matrix Spike Blank  
A3B1437901

Analyte	Units of Measure	Concentration		X Recovery	QC LIMITS
		Blank	Spike	Blank Spike	
		Spike	Amount		
<b>METHOD 8270 - TCL SEMI-VOLATILE ORGANICS</b>					
4-Methylphenol	UG/L	78.5	100	78	23-120
Naphthalene	UG/L	83.6	100	84	38-120
2-Nitroaniline	UG/L	101	100	101	59-153
3-Nitroaniline	UG/L	112	100	112	70-143
4-Nitroaniline	UG/L	118	100	118	71-142
Nitrobenzene	UG/L	76.4	100	76	38-120
2-Nitrophenol	UG/L	91.0	100	91	56-120
4-Nitrophenol	UG/L	38.9	100	39	7-120
N-nitrosodiphenylamine	UG/L	105	100	105	60-120
N-Nitroso-di-n-propylamine	UG/L	87.4	100	87	37-120
Pentachlorophenol	UG/L	109	100	109	22-131
Phenanthrene	UG/L	108	100	108	72-128
Phenol	UG/L	44.4	100	44	12-149
Pyrene	UG/L	113	100	114	60-140
2,4,5-Trichlorophenol	UG/L	104	100	105	57-130
2,4,6-Trichlorophenol	UG/L	102	100	103	56-125

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

STL Buffalo

53182

Date : 01/05/2004 14:28:16  
Job No: A03-C204

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AM0364

SOG: C204  
Client Sample ID: Method Blank  
Lab Sample ID: A3B1437803

Matrix Spike Blank  
A3B1437801

Matrix Spike Blk Dup  
A3B1437802

Analyte	Units of Measure	Concentration		Spike Amount	X Recovery			X RPD	QC LIMITS RPD	REC.
		Spike Blank	Spike Blank Dup		SB	SBD	Avg			
ALLIED - DIESEL RANGE ORGANICS - METHOD Diesel Range Organics	MG/L	1.17	1.26	1.50	1.50	78	84	81	7	30.0 53-162

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

SIL Buffalo

54\82

Date : 01/05/2004 14:28:19  
Job No: A03-C204

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AN0364

SDG: C204  
Client Sample ID: Method Blank  
Lab Sample ID: A3B1441301

LFB  
A3B1441301

Analyte	Units of Measure	Concentration		X Recovery Blank Spike	QC LIMITS
		Blank	Spike		
WEST LAKE - TOTAL METALS (3) - W	MG/L	0.208	0.200	104	80-120
ALLIED - TOTAL ARSENIC - W	MG/L	0.435	0.400	107	80-120
ALLIED - TOTAL IRON - W	MG/L	0.208	0.200	104	80-120
ALLIED - TOTAL MANGANESE - W	MG/L				

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

SIL Buffalo

5582

Date : 01/05/2004 14:28:19  
Job No: A03-c243

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AN0364

SDG: C204  
Client Sample ID: Method Blank  
Lab Sample ID: A3B1447502

LFB  
A3B1447501

Analyte	Units of Measure	Concentration		% Recovery Blank Spike	QC LIMITS
		Blank	Spike		
WEST LAKE - TOTAL METALS (3) - V	MG/L	0.194	0.200	97	80-120
ALLIED - TOTAL ARSENIC - W	MG/L	0.401	0.400	100	80-120
ALLIED - TOTAL IRON - V	MG/L	0.193	0.200	96	80-120
ALLIED - TOTAL MANGANESE - W					

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

STL Buffalo

56182

Date : 01/05/2004 14:28:22  
Job No: A03-C204

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AND364

SDG: C204  
Client Sample ID: Method Blank  
Lab Sample ID: A3B1447102

LCS  
A3B1447101

Analyte	Units of Measure	Concentration		% Recovery	QC LIMITS
		Blank Spike	Spike Amount	Blank Spike	
VET CHEMISTRY ANALYSIS ALLIED - METHOD 160.1 - TOTAL DISSOLVE	MG/L	496.0	500.0	99	85-115

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

SIL Buffalo

5782

Date : 01/05/2004 14:28:22  
Job No: A03-C204

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AN0364

SDG: C204  
Client Sample ID: Method Blank  
Lab Sample ID: A381486602

LCS  
A381486601

Analyte	Units of Measure	Concentration		X Recovery Blank Spike	QC LIMITS
		Blank	Spike		
WET CHEMISTRY ANALYSIS					
ALLIED - 9056 CHLORIDE BY IC	MG/L	9.66	10.0	97	90-110
ALLIED - 9056 METHOD 9056 - FLUORIDE	MG/L	0.910	1.00	91	90-110

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

STL Buffalo

58182

Date : 01/05/2004 14:28:22  
Job No: A03-E204

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AN0364

SDG: E204  
Client Sample ID: Method Blank  
Lab Sample ID: A3B1494002

LCS  
A3B1494001

Analyte	Units of Measure	Concentration Blank Spike	Spike Amount	X Recovery Blank Spike	QC LIMITS
WET CHEMISTRY ANALYSIS ALLIED - 9056 CHLORIDE BY IC	MG/L	9.87	10.0	99	90-110

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

STL Buffalo

5982

Date : 01/05/2004 14:28:22  
Job Nat A03-C204

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AHD364

SPG: C204  
Client Sample ID: Method Blank  
Lab Sample ID: A381497102

LCS  
A381497101

Analyte	Units of Measure	Concentration		X Recovery	QC LIMITS
		Blank Spike	Spike Amount	Blank Spike	
NFT CHEMISTRY ANALYSIS ALLIED - 9056 CHLORIDE BY IC	Mg/L	10.11	10.0	100	90-110

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

STL Buffalo

60\82

Date: 01/05/2004  
Time: 14:28:25

ALLIED WASTE INDUSTRIES  
SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 1

WESTLAKE - 8260 25ML- TCL VOLATILES - N(UNPRES)

Client Sample ID Job No & Lab Sample ID	DUPLICATE A03-C204 A3C20401	FIELD BLANK A03-C204 A3C20406	PZ-302-AI A03-C204 A3C20402	PZ-302-AS A03-C243 A3C24301	PZ-302-ASDL A03-C243 A3C24301DL
Sample Date	12/11/2003 12:05	12/11/2003 15:20	12/11/2003 15:25	12/15/2003 11:00	12/15/2003 11:00
Received Date	12/15/2003 10:00	12/15/2003 10:00	12/15/2003 10:00	12/16/2003 10:15	12/16/2003 10:15
Extraction Date					
Analysis Date	12/17/2003 17:20	12/17/2003 03:06	12/17/2003 17:55	12/19/2003 15:37	12/20/2003 01:04
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	WATER	WATER	WATER	WATER	WATER
Sample Matrix	1.0	1.0	1.0	1.0	2.0
Dilution Factor	0.025 LITERS	0.025 LITERS	0.025 LITERS	0.025 LITERS	0.025 LITERS
X Dry					

NA = Not Applicable

STL Buffalo

61\82

Date: 01/05/2004  
Time: 14:28:23

ALLIED WASTE INDUSTRIES  
SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 2

WESTLAKE - 8260 25ML- TCL VOLATILES - VIUNPRES)

Client Sample ID Job No & Lab Sample ID	PZ-303-AS A03-C204 A3C20403	PZ-304-AI A03-C204 A3C20404	PZ-304-AS A03-C204 A3C20405		
Sample Date	12/11/2003 12:35	12/11/2003 12:00	12/11/2003 13:10		
Received Date	12/15/2003 10:00	12/15/2003 10:00	12/15/2003 10:00		
Extraction Date					
Analysis Date	12/18/2003 06:40	12/17/2003 18:30	12/17/2003 19:05		
Extraction HT Met?	-	-	-		
Analytical HT Met?	YES	YES	YES		
Sample Matrix	WATER	WATER	WATER		
Dilution Factor	20.0	1.0	1.0		
Sample wt/vol	0.025 LITERS	0.025 LITERS	0.025 LITERS		
X Dry					

NA = Not Applicable

STL Buffalo

62\82

Date: 01/05/2004  
Time: 14:28:25

ALLIED WASTE INDUSTRIES  
QC SAMPLE CHRONOLOGY

Rept: AHD3/4  
Page: 3

WESTLAKE - 8260 25ML- TCL VOLATILES - W(UNPRES)

Client Sample ID Job No & Lab Sample ID	TRIP BLANK A03-C204 A3C20407				
Sample Date	12/11/2003				
Received Date	12/15/2003 10:00				
Extraction Date					
Analysis Date	12/17/2003 02:31				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.025 LITERS				
X Dry					

63\82

NA = Not Applicable

SIL Buffalo

Date: 01/05/2004  
Time: 14:28:25

ALLIED WASTE INDUSTRIES  
QC SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 4

WESTLAKE - 8260 25ML - TCL VOLATILES - W(UNPRES)

Client Sample ID Job No & Lab Sample ID	MSB19 A03-C204 A3C20412	MSB20 A03-C204 A3C20414	MSB21 A03-C204 A3C20416	MSB39 A03-C243 A3C24306	MSB40 A03-C243 A3C24308
Sample Date					
Received Date					
Extraction Date					
Analysis Date	12/17/2003 00:47	12/17/2003 13:16	12/18/2003 00:21	12/19/2003 11:16	12/19/2003 22:11
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	-	-	-	-	-
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol % Dry	0.025 LITERS				

NA = Not Applicable

STL Buffalo

64\82

Date: 01/05/2004  
Time: 14:28:25

ALLIED WASTE INDUSTRIES  
QC SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 5

WESTLAKE - 8260 25ML-TCL VOLATILES - W(UNPRES)

Client Sample ID Job No & Lab Sample ID	VBLK19 A03-C204 A3C20411	VBLK20 A03-C204 A3C20413	VBLK21 A03-C204 A3C20415	VBLK39 A03-C243 A3C24305	VBLK40 A03-C243 A3C24307
Sample Date					
Received Date					
Extraction Date					
Analysis Date	12/17/2003 01:57	12/17/2003 13:50	12/18/2003 00:56	12/19/2003 12:14	12/19/2003 22:39
Extraction HT Met?	-	-	-	-	-
Analytical HT Met?	-	-	-	-	-
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	0.025 LITERS				
% Dry					

NA = Not Applicable

STL Buffalo

6582

Date: 01/05/2004  
Time: 14:28:27

ALLIED WASTE INDUSTRIES  
SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 1

ALLIED - GASOLINE RANGE ORGANICS-8015B-W (UNPRES)

Client Sample ID Job No & Lab Sample ID	DUPLICATE A03-C204 A3C20401	PZ-302-AI A03-C204 A3C20402	PZ-302-AS A03-C243 A3C24301	PZ-303-AS A03-C204 A3C20403	PZ-304-AI A03-C204 A3C20404
Sample Date	12/11/2003 12:05	12/11/2003 15:25	12/15/2003 11:00	12/11/2003 12:35	12/11/2003 12:00
Received Date	12/15/2003 10:00	12/15/2003 10:00	12/16/2003 10:15	12/15/2003 10:00	12/15/2003 10:00
Extraction Date					
Analysis Date	12/15/2003 16:33	12/15/2003 17:05	12/18/2003 14:04	12/15/2003 19:15	12/15/2003 17:36
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	WATER	WATER	WATER	WATER	WATER
Sample Matrix					
Dilution Factor	1.0	1.0	1.0	10.0	1.0
Sample wt/vol	0.005 LITERS				
X Dry					

NA = Not Applicable

STL Buffalo

6682

Date: 01/05/2004  
Time: 14:28:27

ALLIED WASTE INDUSTRIES  
SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 2

ALLIED - GASOLINE RANGE ORGANICS-8015B-W (UNPRES)

Client Sample ID Job No & Lab Sample ID	PZ-304-AS A03-C204 A3C20405				
Sample Date	12/11/2003 13:10				
Received Date	12/15/2003 10:00				
Extraction Date					
Analysis Date	12/15/2003 18:10				
Extraction HT Met?	-				
Analytical HT Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	0.005 LITERS				
% Dry					

67182

NA = Not Applicable

SIL Buffalo

Date: 01/05/2004  
Time: 14:28:27

ALLIED WASTE INDUSTRIES  
QC SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 3

ALLIED - GASOLINE RANGE ORGANICS-8015B-W (UNPRES)

Client Sample ID Job No & Lab Sample ID	LCS A03-C243 A3C24303	LCSD A03-C243 A3C24304	MSB A03-C204 A3C20409	MSB0 A03-C204 A3C20410	
Sample Date					
Received Date					
Extraction Date					
Analysis Date	12/18/2003 12:46	12/18/2003 13:20	12/15/2003 12:37	12/15/2003 13:09	
Extraction HT Met?	-	-	-	-	
Analytical HT Met?	-	-	-	-	
Sample Matrix	WATER	WATER	WATER	WATER	
Dilution Factor	1.0	1.0	1.0	1.0	
Sample wt/vol	0.005 LITERS	0.005 LITERS	0.005 LITERS	0.005 LITERS	
X Dry					

NA = Not Applicable

STL Buffalo

68\82

Date: 01/05/2004  
Time: 14:26:27

ALLIED WASTE INDUSTRIES  
QC SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 4

ALLIED - GASOLINE RANGE ORGANICS-8015B-W (UNPRES)

Client Sample ID Job No & Lab Sample ID	VBLK091 A03-C204 A3C20408	VBLK149 A03-C243 A3C24302			
Sample Date					
Received Date					
Extraction Date					
Analysis Date	12/15/2003 11:53	12/18/2003 11:27			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	WATER	WATER			
Dilution Factor	1.0	1.0			
Sample wt/vol	0.005 LITERS	0.005 LITERS			
% Dry					

NA = Not Applicable

STL Buffalo

69\82

Date: 01/05/2004  
Time: 14:28:30

ALLIED WASTE INDUSTRIES  
SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 1

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	DUPLICATE A03-C204 A3C20401	PZ-302-AI A03-C204 A3C20402	PZ-303-A3 A03-C204 A3C20403	PZ-304-AI A03-C204 A3C20404	PZ-304-AS A03-C204 A3C20405
Sample Date	12/11/2003 12:05	12/11/2003 15:25	12/11/2003 12:35	12/11/2003 12:00	12/11/2003 13:10
Received Date	12/15/2003 10:00	12/15/2003 10:00	12/15/2003 10:00	12/15/2003 10:00	12/15/2003 10:00
Extraction Date	12/16/2003 07:00	12/16/2003 07:00	12/16/2003 07:00	12/16/2003 07:00	12/16/2003 07:00
Analysis Date	12/18/2003 17:45	12/18/2003 18:12	12/18/2003 18:39	12/18/2003 19:06	12/18/2003 19:33
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	1.0	1.0	1.0
Sample wt/vol	1.045 LITERS	1.04 LITERS	1.045 LITERS	1.045 LITERS	1.045 LITERS
X Dry					

NA = Not Applicable

STL Buffalo

70\82

Date: 01/05/2004  
Time: 14:28:30

ALLIED WASTE INDUSTRIES  
QC SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 2

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A03-C204 A381437901					
Sample Date						
Received Date						
Extraction Date	12/16/2003 07:00					
Analysis Date	12/17/2003 18:21					
Extraction HT Met?	-					
Analytical HT Met?	-					
Sample Matrix	WATER					
Dilution Factor	1.0					
Sample w/vol	1.0 LITERS					
X Dry						

NA = Not Applicable

STL Buffalo

71\82

Date: 09/05/2004  
Time: 14:28:30

ALLIED WASTE INDUSTRIES  
QC SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 3

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	Method Blank AO3-C204 A3B1437902				
Sample Date					
Received Date					
Extraction Date	12/16/2003 07:00				
Analysis Date	12/17/2003 18:48				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% Dry					

72\82

NA = Not Applicable

STL Buffalo

Date: 01/05/2004  
Time: 14:28:32

ALLIED WASTE INDUSTRIES  
SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 1

ALLIED - DIESEL RANGE ORGANICS - METHOD 8015B - W

Client Sample ID Job No & Lab Sample ID	DUPLICATE A03-C204 A3C20401	PZ-302-AI A03-C204 A3C20402	PZ-303-AS A03-C204 A3C20403	PZ-304-AI A03-C204 A3C20404	PZ-304-AS A03-C204 A3C20405
Sample Date	12/11/2003 12:05	12/11/2003 15:25	12/11/2003 12:35	12/11/2003 12:00	12/11/2003 13:10
Received Date	12/15/2003 10:00	12/15/2003 10:00	12/15/2003 10:00	12/15/2003 10:00	12/15/2003 10:00
Extraction Date	12/16/2003 01:00	12/16/2003 07:00	12/16/2003 07:00	12/16/2003 07:00	12/16/2003 07:00
Analysis Date	12/22/2003 15:58	12/22/2003 16:30	12/22/2003 17:01	12/22/2003 17:33	12/22/2003 18:04
Extraction HT Met?	YES	YES	YES	YES	YES
Analytical HT Met?	YES	YES	YES	YES	YES
Sample Matrix	WATER	WATER	WATER	WATER	WATER
Dilution Factor	1.0	1.0	2.0	1.0	1.0
Sample wt/vol	1.045 LITERS	1.03 LITERS	1.035 LITERS	1.04 LITERS	1.01 LITERS
X Dry					

NA = Not Applicable

STL Buffalo

73182

Date: 01/05/2004  
Time: 14:28:32

ALLIED WASTE INDUSTRIES  
QC SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 2

ALLIED - DIESEL RANGE ORGANICS - METHOD 8015B - W

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A03-C204 A3B1437801	Matrix Spike Blk Dup A03-C204 A3B1437802			
Sample Date					
Received Date					
Extraction Date	12/16/2003 07:00	12/16/2003 07:00			
Analysis Date	12/22/2003 13:21	12/22/2003 13:52			
Extraction HT Met?	-	-			
Analytical HT Met?	-	-			
Sample Matrix	WATER	WATER			
Dilution Factor	1.0	1.0			
Sample wt/vol	1.0 LITERS	1.0 LITERS			
X Dry					

NA = Not Applicable

STL Buffalo

74182

Date: 01/05/2004  
Time: 14:28:32

ALLIED WASTE INDUSTRIES  
QC SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 3

ALLIED - DIESEL RANGE ORGANICS - METHOD 8015B - W

Client Sample ID Job No & Lab Sample ID	Method Blank A03-C204 A3B1437803				
Sample Date					
Received Date					
Extraction Date	12/16/2003 07:00				
Analysis Date	12/22/2003 14:24				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
X Dry					

75182

NA = Not Applicable

SIL Buffalo

Date: 01/05/2004 14:28:35  
Jobno: A03-CZ04

ALLIED WASTE INDUSTRIES  
SAMPLE CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A3C20401	DUPLICATE	MG/L	Arsenic - Total	6010	1.00	12/11/2003 12:05	12/15 10:00	NA	NA	12/22 22:33	Yes	WATER
		MG/L	Iron - Total	6010	1.00	12/11/2003 12:05	12/15 10:00	NA	NA	12/22 22:33	Yes	WATER
A3C20402	PZ-302-AI	MG/L	Manganese - Total	6010	1.00	12/11/2003 12:05	12/15 10:00	NA	NA	12/22 22:33	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	12/11/2003 15:25	12/15 10:00	NA	NA	12/22 20:45	Yes	WATER
		MG/L	Iron - Total	6010	1.00	12/11/2003 15:25	12/15 10:00	NA	NA	12/22 20:45	Yes	WATER
A3C24301	PZ-302-AS	MG/L	Manganese - Total	6010	1.00	12/11/2003 15:25	12/15 10:00	NA	NA	12/22 20:45	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	12/15/2003 11:00	12/16 10:15	NA	NA	12/20 20:47	Yes	WATER
		MG/L	Iron - Total	6010	1.00	12/15/2003 11:00	12/16 10:15	NA	NA	12/20 20:47	Yes	WATER
A3C20403	PZ-303-AS	MG/L	Manganese - Total	6010	1.00	12/15/2003 11:00	12/16 10:15	NA	NA	12/20 20:47	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	12/11/2003 12:35	12/15 10:00	NA	NA	12/22 21:01	Yes	WATER
		MG/L	Iron - Total	6010	1.00	12/11/2003 12:35	12/15 10:00	NA	NA	12/22 21:01	Yes	WATER
A3C20404	PZ-304-AI	MG/L	Manganese - Total	6010	1.00	12/11/2003 12:35	12/15 10:00	NA	NA	12/22 21:01	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	12/11/2003 12:00	12/15 10:00	NA	NA	12/22 21:06	Yes	WATER
		MG/L	Iron - Total	6010	1.00	12/11/2003 12:00	12/15 10:00	NA	NA	12/22 21:06	Yes	WATER
A3C20405	PZ-304-AS	MG/L	Manganese - Total	6010	1.00	12/11/2003 12:00	12/15 10:00	NA	NA	12/22 21:06	Yes	WATER
		MG/L	Arsenic - Total	6010	1.00	12/11/2003 13:10	12/15 10:00	NA	NA	12/22 21:11	Yes	WATER
		MG/L	Iron - Total	6010	1.00	12/11/2003 13:10	12/15 10:00	NA	NA	12/22 21:11	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	12/11/2003 13:10	12/15 10:00	NA	NA	12/22 21:11	Yes	WATER

76/82

AHT = Analysis Holding Time Met  
THT = TCLP Holding Time Met  
NA = Not Applicable

SIL Buffalo

Date: 01/05/2004 14:28:35  
Jobno: A03-C204

ALLIED WASTE INDUSTRIES  
QC CHRONOLOGY

Repl: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THT	Analysis Date	AHT	Matrix
A3B1441302	Method Blank	MG/L	Arsenic - Total	6010	1.00	-	- 10:00	NA	NA	12/22 19:42	Yes	WATER
		MG/L	Iron - Total	6010	1.00	-	- 10:00	NA	NA	12/22 19:42	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	-	- 10:00	NA	NA	12/22 19:42	Yes	WATER
A3B1447502	Method Blank	MG/L	Arsenic - Total	6010	1.00	-	- 10:15	NA	NA	12/20 19:10	Yes	WATER
		MG/L	Iron - Total	6010	1.00	-	- 10:15	NA	NA	12/20 19:10	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	-	- 10:15	NA	NA	12/20 19:10	Yes	WATER
A3B1441301	LFB	MG/L	Arsenic - Total	6010	1.00	-	- 10:00	NA	NA	12/22 19:47	Yes	WATER
		MG/L	Iron - Total	6010	1.00	-	- 10:00	NA	NA	12/22 19:47	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	-	- 10:00	NA	NA	12/22 19:47	Yes	WATER
A3B1447501	LFB	MG/L	Arsenic - Total	6010	1.00	-	- 10:15	NA	NA	12/20 19:15	Yes	WATER
		MG/L	Iron - Total	6010	1.00	-	- 10:15	NA	NA	12/20 19:15	Yes	WATER
		MG/L	Manganese - Total	6010	1.00	-	- 10:15	NA	NA	12/20 19:15	Yes	WATER

AHT = Analysis Holding Time Net  
THT = TCLP Holding Time Net  
NA = Not Applicable

STL Buffalo

7782

Date: 01/05/2004 14:28:38  
Jobnos: A03-C204

ALLIED WASTE INDUSTRIES  
SAMPLE CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	IHT	Analysis Date	AMT	Matrix
A3C20401	DUPLICATE	MG/L	Total Dissolved Solids	160.1	1.00	12/11/2003 12:05	12/15 10:00	NA	NA	12/17 12:00	Yes	WATER
		MG/L	Chloride	9056	5.00	12/11/2003 12:05	12/15 10:00	NA	NA	12/30	Yes	WATER
		MG/L	Fluoride	9056	2.00	12/11/2003 12:05	12/15 10:00	NA	NA	12/29 13:40	Yes	WATER
A3C20402	PZ-302-AI	MG/L	Total Dissolved Solids	160.1	1.00	12/11/2003 15:25	12/15 10:00	NA	NA	12/17 12:00	Yes	WATER
		MG/L	Chloride	9056	1.00	12/11/2003 15:25	12/15 10:00	NA	NA	12/29 13:40	Yes	WATER
		MG/L	Fluoride	9056	1.00	12/11/2003 15:25	12/15 10:00	NA	NA	12/29 13:40	Yes	WATER
A3C20403	PZ-303-AS	MG/L	Total Dissolved Solids	160.1	1.00	12/11/2003 12:35	12/15 10:00	NA	NA	12/17 12:00	Yes	WATER
		MG/L	Chloride	9056	2.00	12/11/2003 12:35	12/15 10:00	NA	NA	12/29 13:40	Yes	WATER
		MG/L	Fluoride	9056	2.00	12/11/2003 12:35	12/15 10:00	NA	NA	12/29 13:40	Yes	WATER
A3C20404	PZ-304-AI	MG/L	Total Dissolved Solids	160.1	1.00	12/11/2003 12:00	12/15 10:00	NA	NA	12/17 12:00	Yes	WATER
		MG/L	Chloride	9056	10.00	12/11/2003 12:00	12/15 10:00	NA	NA	12/31 10:21	Yes	WATER
		MG/L	Fluoride	9056	2.00	12/11/2003 12:00	12/15 10:00	NA	NA	12/29 13:40	Yes	WATER
A3C20405	PZ-304-AS	MG/L	Total Dissolved Solids	160.1	1.00	12/11/2003 13:10	12/15 10:00	NA	NA	12/17 12:00	Yes	WATER
		MG/L	Chloride	9056	10.00	12/11/2003 13:10	12/15 10:00	NA	NA	12/31 10:21	Yes	WATER
		MG/L	Fluoride	9056	2.00	12/11/2003 13:10	12/15 10:00	NA	NA	12/29 13:40	Yes	WATER

AMT = Analysis Holding Time Met  
THT = TCLP Holding Time Met  
NA = Not Applicable

SIL Buffalo

7882

Date: 01/05/2004 14:28:38  
Jobno: A03-C204

ALLIED WASTE INDUSTRIES  
QC CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	IHT	Analysis Date	AHT	Matrix
A3B1447102	Method Blank	MG/L	Total Dissolved Solids	160.1	1.00	-	- 10:00	NA	NA	12/17 12:00	Yes	WATER
A3B1447101	LCS	MG/L	Total Dissolved Solids	160.1	1.00	-	- 10:00	NA	NA	12/17 12:00	Yes	WATER
A3B1486601	LCS	MG/L	Chloride	9056	1.00	-	- 10:00	NA	NA	12/29 13:40	Yes	WATER
		MG/L	Fluoride	9056	1.00	-	- 10:00	NA	NA	12/29 13:40	Yes	WATER
A3B1494001	LCS	MG/L	Chloride	9056	1.00	-	- 10:00	NA	NA	12/30	Yes	WATER
A3B1497101	LCS	MG/L	Chloride	9056	1.00	-	- 10:00	NA	NA	12/31 10:21	Yes	WATER
A3B1486602	Method Blank	MG/L	Chloride	9056	1.00	-	- 10:00	NA	NA	12/29 13:40	Yes	WATER
		MG/L	Fluoride	9056	1.00	-	- 10:00	NA	NA	12/29 13:40	Yes	WATER
A3B1494002	Method Blank	MG/L	Chloride	9056	1.00	-	- 10:00	NA	NA	12/30	Yes	WATER
A3B1497102	Method Blank	MG/L	Chloride	9056	1.00	-	- 10:00	NA	NA	12/31 10:21	Yes	WATER

AHT = Analysis Holding Time Met  
IHT = TCLP Holding Time Met  
NA = Not Applicable

STL Buff-10

79\82

## Chain of Custody

# Version 01 Custody Record

STL-4124 (1200)

**TRENT**  
 SERVICES
**Severn Trent Laboratories, Inc.**

Client <i>Trent &amp; Associates</i>			Project Manager <i>Ward Herst</i>		Date <i>12-12-03</i>	Chain of Custody Number <i>096660</i>
Address <i>4630 S. Hwy 94, N. Oliver Rd</i>			Telephone Number (Area Code/Fax Number) <i>(636) 939-4111/(636) 939-9787</i>		Lab Number <i>243</i>	Page <i>1</i> of <i>1</i>
City <i>Saint Charles</i>	State <i>MD</i>	Zip Code <i>63304</i>	Site Contact <i>B.J.F.</i>	Lab Contact <i>B.J.F.</i>	Analytical Method if more space is needed	

Project Name and Location (State)  
*Westlake OV 2*

Contract/Purchase Order/Quote No.  
*Westlake OV 2*Sample I.D. No. and Description  
(Container for each sample may be combined on one line)

Comments		DISTRIBUTION: WHITE - Stays with the Sample. CANARY - Returned to Client with Report. PINK - Field Copy	
Zer Z. O. I.			

# Custody Record

TRENT  
SERVICES

Severn Trent Laboratories, Inc.

SIL-4124 (1200)

Client <u>Herst &amp; Associates</u>			Project Manager <u>Ward Herst</u>			Date <u>12-15-03</u>	Chain of Custody Number <u>096661</u>
Address <u>4630 S. Hwy 94 N Outer Rd</u>			Telephone Number (Area Code)/Fax Number <u>(636) 939-9111/(636) 939-9257</u>			Lab Number	Page <u>1</u> of <u>1</u>
City <u>St. Charles</u>	State <u>MO</u>	Zip Code <u>63304</u>	Site Contact	Lab Contact	Analysis (Attach list if more space is needed)		
Project Name and Location (State) <u>Westlake QUA</u> <u>Bridgeton, MO</u>			Carrier/Waybill Number				
Contract/Purchase Order/Quote No. <u>Westlake QUA</u>			Matrix	Containers & Preservatives	Special Instructions/Conditions of Receipt  <u>insufficient volume to collect remainder of bottle set.</u>		
Sample I.D. No. and Description (Containers for each sample may be combined on one line) <u>PZ-302-AS</u>			Date <u>12-15-03</u>	Time <u>1100</u>			
<p>Possible Hazard Identification</p> <p><input checked="" type="checkbox"/> Non-Hazard    <input type="checkbox"/> Flammable    <input type="checkbox"/> Skin Irritant    <input type="checkbox"/> Poison B    <input type="checkbox"/> Unknown    <input type="checkbox"/> Return To Client    <input checked="" type="checkbox"/> Disposal By Lab    <input type="checkbox"/> Archive For _____ Months (A fee may be assessed if samples are retained longer than 3 months)</p> <p>Turn Around Time Required</p> <p><input type="checkbox"/> 24 Hours    <input type="checkbox"/> 48 Hours    <input type="checkbox"/> 7 Days    <input type="checkbox"/> 14 Days    <input type="checkbox"/> 21 Days    <input type="checkbox"/> Other _____</p> <p>QC Requirements (Specify)</p> <p>1. Relinquished By <u>Timothy J Ewing</u>      Date <u>12-15-03</u>      Time <u>1730</u></p> <p>2. Received By <u>FedEx 843075901967</u>      Date <u>12-15-03</u>      Time <u>1730</u></p> <p>2. Received By <u>Lindell B. Bufford</u>      Date <u>12-16-03</u>      Time <u>1015</u></p> <p>3. Received By <u>7.0 C</u></p>							

DISTRIBUTION: WHITE - Stays with the Sample; CANARY - Returned to Client with Report; PINK - Field Copy

SEVERN  
TRENT

STL

STL Buffalo  
10 Hazelwood Drive, Suite 106  
Amherst, NY 14228

Tel: 716 691 2600 Fax: 716 691 7991  
[www.stl-inc.com](http://www.stl-inc.com)

ANALYTICAL REPORT

Job#: A04-0408

STL Project#: NY0A862901  
Site Name: ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Task: Westlake Landfill

\*Mr. Ward Herst  
Herst & Associates  
4630 S. Hwy 94, N. Outer Rd.  
St. Charles, MO 63304

STL Buffalo



Brian J. Fischer  
Project Manager

01/29/2004

**STL Buffalo  
Current Certifications**

<b>STATE</b>	<b>Program</b>	<b>Cert # / Lab ID</b>
A2LA (ISO 17025)	SDWA, CWA, RCRA	0732-01
Arkansas	SDWA, CWA, RCRA, SOIL	03-054-D/88-0686
California	NELAP CWA, RCRA	01169CA
Canada	GENERAL	SCC 1007-15/10B
Connecticut	SDWA, CWA, RCRA, SOIL	PH-0568
Florida	NELAP CWA, RCRA	E87672
Georgia	SDWA	956
Illinois	NELAP SDWA, CWA, RCRA	200003
Kansas	NELAP SDWA, CWA, RCRA	E-10187
Kentucky	SDWA	90029
Kentucky UST	UST	30
Louisiana	NELAP CWA, RCRA	2031
Maine	SDWA, CWA	NY044
Maryland	SDWA	294
Massachusetts	SDWA, CWA	M-NY044
Michigan	SDWA	9937
Minnesota	SDWA, CWA, RCRA	036-999-337
New Hampshire	NELAP SDWA, CWA	233701
New Jersey	SDWA, CWA, RCRA, CLP	NY455
New York	NELAP, AIR, SDWA, CWA, RCRA	10026
North Carolina	CWA	411
North Dakota	SDWA, CWA, RCRA	R-176
Oklahoma	CWA, RCRA	9421
Pennsylvania	Env. Lab Reg.	66-281
South Carolina	RCRA	91013
Tennessee	SDWA	2970
USDA	FOREIGN SOIL PERMIT	S-4650
Virginia	SDWA	278
Washington	CWA, RCRA	C254
West Virginia	CWA	252
Wisconsin	CWA, RCRA	998310390
Wyoming UST	UST	NA

## SAMPLE SUMMARY

<u>LAB SAMPLE ID</u>	<u>CLIENT SAMPLE ID</u>	<u>SAMPLED</u>		<u>RECEIVED</u>	
		<u>DATE</u>	<u>TIME</u>	<u>DATE</u>	<u>TIME</u>
A4040801	PZ-302-AS	01/12/2004	13:00	01/15/2004	10:30
A4040802	PZ-302-AS	01/12/2004	16:10	01/15/2004	10:30
A4040804	PZ-302-AS	01/13/2004	10:40	01/15/2004	10:30

## METHODS SUMMARY

Job#: A04-0408STL Project#: NY0A862901  
Site Name: ALLIED WASTE - WESTLAKE LANDFILL (MO)

PARAMETER	ANALYTICAL METHOD
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS	SW8463 8270
ALLIED - DIESEL RANGE ORGANICS - METHOD 8015B - W	SW8463 8015B
Chloride	SW8463 9056
Fluoride	SW8463 9056
Total Dissolved Solids	CFR136 160.1

References:

- CFR136 Guidelines Establishing Test Procedures for the Analysis of Pollutants Under the Clean Water Act, and Appendix A-C; 40 CFR Part 136, USEPA Office of Water.
- SW8463 "Test Methods for Evaluating Solid Waste Physical/Chemical Methods (SW846), Third Edition, 9/86; Update I, 7/92; Update IIA, 8/93; Update II, 9/94; Update IIB, 1/95; Update III, 12/96.

## NON-COMFORMANCE SUMMARY

Job#: A04-0408

STL Project#: NY0A862901

Site Name: ALLIED WASTE - WESTLAKE LANDFILL (MO)

General Comments

The enclosed data have been reported utilizing data qualifiers (Q) as defined on the Data Comment Page.

Soil, sediment and sludge sample results are reported on "dry weight" basis unless otherwise noted in this data package.

According to 40CFR Part 136.3, pH, Chlorine Residual and Dissolved Oxygen analyses are to be performed immediately after aqueous sample collection. When these parameters are not indicated as field (e.g. pH-Field), they were not analyzed immediately, but as soon as possible after laboratory receipt.

Sample dilutions were performed as indicated on the attached Dilution Log. The rationale for dilution is specified by the 3-digit code and definition.

Sample Receipt Comments

A04-0408

Sample Cooler(s) were received at the following temperature(s); 2.0 °C  
All samples were received in good condition.

GC/MS Semivolatile Data

No deviations from protocol were encountered during the analytical procedures.

GC Extractable Data

No deviations from protocol were encountered during the analytical procedures.

Wet Chemistry Data

No deviations from protocol were encountered during the analytical procedures.

\*\*\*\*\*

The results presented in this report relate only to the analytical testing and condition of the sample at receipt. This report pertains to only those samples actually tested. All pages of this report are integral parts of the analytical data. Therefore, this report should be reproduced only in its entirety.

## DATA COMMENT PAGE

### ORGANIC DATA QUALIFIERS

- ND or U Indicates compound was analyzed for, but not detected at or above the reporting limit.
- J Indicates an estimated value. This flag is used either when estimating a concentration for tentatively identified compounds where a 1:1 response is assumed, or when the data indicates the presence of a compound that meets the identification criteria but the result is less than the sample quantitation limit but greater than zero.
- C This flag applies to pesticide results where the identification has been confirmed by GC/MS.
- B This flag is used when the analyte is found in the associated blank, as well as in the sample.
- E This flag identifies compounds whose concentrations exceed the calibration range of the instrument for that specific analysis.
- D This flag identifies all compounds identified in an analysis at the secondary dilution factor.
- N Indicates presumptive evidence of a compound. This flag is used only for tentatively identified compounds, where the identification is based on the Mass Spectral library search. It is applied to all TIC results.
- P This flag is used for a pesticide/Aroclor target analyte when there is greater than 25% difference for detected concentrations between the two GC columns. The lower of the two values is reported on the data page and flagged with a "P".
- A This flag indicates that a TIC is a suspected aldol-condensation product.
- 1 Indicates coelution.
- Indicates analysis is not within the quality control limits.

### INORGANIC DATA QUALIFIERS

- ND or U Indicates element was analyzed for, but not detected at or above the reporting limit.
- J or B Indicates a value greater than or equal to the instrument detection limit, but less than the quantitation limit.
- N Indicates spike sample recovery is not within the quality control limits.
- K Indicates the post digestion spike recovery is not within the quality control limits.
- S Indicates value determined by the Method of Standard Addition.
- M Indicates duplicate injection results exceeded quality control limits.
- W Post digestion spike for Furnace AA analysis is out of quality control limits (85-115%) while sample absorbance is less than 50% of spike absorbance.
- E Indicates a value estimated or not reported due to the presence of interferences.
- H Indicates analytical holding time exceedance. The value obtained should be considered an estimate.
- Indicates analysis is not within the quality control limits.
- + Indicates the correlation coefficient for the Method of Standard Addition is less than 0.995.

## Sample Data Package

Date: 01/29/2004  
Time: 11:58:20

ALLIED WASTE - WESTLAKE LANDFILL (R0)  
Westlake Landfill  
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	PZ-302-AS AU4-0408 01/12/2004	A4040801						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Phenol	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/L	ND	10	NA		NA		NA	
2-Chlorophenol	UG/L	ND	10	NA		NA		NA	
2-Methylphenol	UG/L	ND	10	NA		NA		NA	
2,2'-Oxybis(1-chloropropane)	UG/L	ND	10	NA		NA		NA	
4-Methylphenol	UG/L	ND	10	NA		NA		NA	
N-Nitroso-di-n-propylamine	UG/L	ND	10	NA		NA		NA	
Hexachloroethane	UG/L	ND	10	NA		NA		NA	
Nitrobenzene	UG/L	ND	10	NA		NA		NA	
Isophorone	UG/L	ND	10	NA		NA		NA	
2-Nitrophenol	UG/L	ND	10	NA		NA		NA	
2,4-Dimethylphenol	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/L	ND	10	NA		NA		NA	
2,4-Dichlorophenol	UG/L	ND	10	NA		NA		NA	
Naphthalene	UG/L	ND	10	NA		NA		NA	
4-Chloroaniline	UG/L	ND	10	NA		NA		NA	
Hexachlorobutadiene	UG/L	ND	10	NA		NA		NA	
4-Chloro-3-methylphenol	UG/L	ND	10	NA		NA		NA	
2-Methylnaphthalene	UG/L	ND	10	NA		NA		NA	
Hexachlorocyclohexadiene	UG/L	ND	23	NA		NA		NA	
2,4,6-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
2,4,5-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
2-Chlorophthalalene	UG/L	ND	10	NA		NA		NA	
2-Nitroaniline	UG/L	ND	48	NA		NA		NA	
Dimethyl phthalate	UG/L	ND	10	NA		NA		NA	
Acenaphthylene	UG/L	ND	10	NA		NA		NA	
3-Nitroaniline	UG/L	ND	48	NA		NA		NA	
Acenaphthene	UG/L	ND	10	NA		NA		NA	
2,4-Dinitrophenol	UG/L	ND	48	NA		NA		NA	
4-Nitrophenol	UG/L	ND	48	NA		NA		NA	
Dibenzofuran	UG/L	ND	10	NA		NA		NA	
2,4-Bisnitrotoluene	UG/L	ND	10	NA		NA		NA	
Diethyl phthalate	UG/L	ND	10	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Fluorene	UG/L	ND	10	NA		NA		NA	
4-Nitroaniline	UG/L	ND	48	NA		NA		NA	
4,6-Binitro-2-methylphenol	UG/L	ND	48	NA		NA		NA	
N-nitrosodiphenylamine	UG/L	ND	10	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Hexachlorobenzene	UG/L	ND	10	NA		NA		NA	
Pentachlorophenol	UG/L	ND	48	NA		NA		NA	
Phenanthrene	UG/L	ND	10	NA		NA		NA	
Anthracene	UG/L	ND	10	NA		NA		NA	

NA = Not Applicable ND = Not Detected

SIL Buffalo

5/3/08

Date: 01/29/2004  
Time: 11:58:20

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	PZ-302-AS A04-0408 01/12/2004	A4040801						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Di-n-butyl phthalate	UG/L	ND	10	NA		NA		NA	
Fluorene	UG/L	ND	10	NA		NA		NA	
Pyrene	UG/L	ND	10	NA		NA		NA	
Butyl benzyl phthalate	UG/L	ND	10	NA		NA		NA	
3,3'-Bichlorobenzidine	UG/L	ND	10	NA		NA		NA	
Benzol(a)anthracene	UG/L	ND	10	NA		NA		NA	
Chrysene	UG/L	ND	10	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/L	ND	10	NA		NA		NA	
Di-n-octyl phthalate	UG/L	ND	10	NA		NA		NA	
Benzol(b)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzol(k)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benzol(a)pyrene	UG/L	ND	10	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	NA		NA		NA	
O-benzol(a,h)anthracene	UG/L	ND	10	NA		NA		NA	
Benzol(ghi)perylene	UG/L	ND	10	NA		NA		NA	
2,6-Dinitrotoluene	UG/L	ND	10	NA		NA		NA	
<u>IS/SURROGATE(S)</u>									
1,4-Dichlorobenzene-d4	x	86	50-200	NA		NA		NA	
Naphthalene-d8	x	91	50-200	NA		NA		NA	
Acenaphthene-d10	x	91	50-200	NA		NA		NA	
Phenanthrene-d10	x	88	50-200	NA		NA		NA	
Chrysene-d12	x	89	50-200	NA		NA		NA	
Perylene-d12	x	93	50-200	NA		NA		NA	
Nitrobenzene-d5	x	88	37-120	NA		NA		NA	
2-Fluorobiphenyl	x	100	67-120	NA		NA		NA	
p-Terphenyl-d14	x	97	31-154	NA		NA		NA	
Phenol-d5	x	31	10-110	NA		NA		NA	
2-Fluorophenol	x	48	18-120	NA		NA		NA	
2,4,6-Tribromophenol	x	110	41-149	NA		NA		NA	

NA = Not Applicable   ND = Not Detected

STL Buffalo

Date: 01/29/2004  
Time: 11:58:23

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
ALLIED - DIESEL RANGE ORGANICS - METHOD 8015B - V

Rept: AN0326

Client ID Job No Sample Date	Lab ID	PZ-302-AS A06-0408 01/12/2004	A4040802						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Diesel Range Organics	MG/L	ND	0.50	NA		NA		NA	
<del>o-Terphenyl</del>	X	101	27-153	NA		NA		NA	

NA = Not Applicable ND = Not Detected

SIL Buffalo

Dates: 01/29/2004  
Time: 11:58:27

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
WET CHEMISTRY ANALYSIS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	PZ-302-AS A04-0408 01/13/2004	A4040804						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Chloride	MG/L	54.0	0.50	NA		NA		NA	
Fluoride	MG/L	0.40	0.050	NA		NA		NA	
Total Dissolved Solids	MG/L	927	10	NA		NA		NA	

NA = Not Applicable   ND = Not Detected

SIL Buffalo

11/35

Chronology and QC  
Summary Package

Date: 01/29/2004  
Time: 11:58:39

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	3 Blank A04-0408	A4B04B2602						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Phenol	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/L	ND	10	NA		NA		NA	
2-Chlorophenol	UG/L	ND	10	NA		NA		NA	
2-Methylphenol	UG/L	ND	10	NA		NA		NA	
2,2'-Oxybis(1-Chloropropane)	UG/L	ND	10	NA		NA		NA	
4-Methylphenol	UG/L	ND	10	NA		NA		NA	
N-Nitroso-di-n-propylamine	UG/L	ND	10	NA		NA		NA	
Hexachloroethane	UG/L	ND	10	NA		NA		NA	
Nitrobenzene	UG/L	ND	10	NA		NA		NA	
Isophorone	UG/L	ND	10	NA		NA		NA	
2-Nitrophenol	UG/L	ND	10	NA		NA		NA	
2,4-Dimethylphenol	UG/L	ND	10	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/L	ND	10	NA		NA		NA	
2,4-Dichlorophenol	UG/L	ND	10	NA		NA		NA	
Naphthalene	UG/L	ND	10	NA		NA		NA	
4-Chloraniline	UG/L	ND	10	NA		NA		NA	
Hexachlorobutadiene	UG/L	ND	10	NA		NA		NA	
4-Chloro-3-methylphenol	UG/L	ND	10	NA		NA		NA	
Z-Methylnaphthalene	UG/L	ND	10	NA		NA		NA	
Hexachlorocyclopentadiene	UG/L	ND	24	NA		NA		NA	
2,4,6-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
2,4,5-Trichlorophenol	UG/L	ND	10	NA		NA		NA	
2-Chloronaphthalene	UG/L	ND	10	NA		NA		NA	
2-Nitroaniline	UG/L	ND	50	NA		NA		NA	
Dimethyl phthalate	UG/L	ND	10	NA		NA		NA	
Acenaphthylene	UG/L	ND	10	NA		NA		NA	
3-Nitroaniline	UG/L	ND	50	NA		NA		NA	
Acenaphthene	UG/L	ND	10	NA		NA		NA	
2,4-Dinitrophenol	UG/L	ND	50	NA		NA		NA	
4-Nitrophenol	UG/L	ND	50	NA		NA		NA	
Dibenzofuran	UG/L	ND	10	NA		NA		NA	
2,4-Dinitrotoluene	UG/L	ND	10	NA		NA		NA	
Diethyl phthalate	UG/L	ND	10	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Fluorene	UG/L	ND	10	NA		NA		NA	
4-Nitroaniline	UG/L	ND	50	NA		NA		NA	
4,6-Dinitro-2-Methylphenol	UG/L	ND	50	NA		NA		NA	
N-nitrosodiphenylamine	UG/L	ND	10	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/L	ND	10	NA		NA		NA	
Hexachlorobenzene	UG/L	ND	10	NA		NA		NA	
Pentachlorophenol	UG/L	ND	50	NA		NA		NA	
Phenanthrene	UG/L	ND	10	NA		NA		NA	
Anthracene	UG/L	ND	10	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

1335

Date: 01/29/2004  
Time: 11:58:59

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN03Z6

Client ID Job No Sample Date	Lab ID	\$ Blank A04-0408	A4B0682602						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Di-n-butyl phthalate	UG/L	ND	10	NA		NA		NA	
Fluoranthene	UG/L	ND	10	NA		NA		NA	
Pyrene	UG/L	ND	10	NA		NA		NA	
Butyl benzyl phthalate	UG/L	ND	10	NA		NA		NA	
3,3'-dichlorobenzidine	UG/L	ND	20	NA		NA		NA	
Benz(a)anthracene	UG/L	ND	10	NA		NA		NA	
Chrysene	UG/L	ND	10	NA		NA		NA	
Eth(2-ethylhexyl) phthalate	UG/L	ND	10	NA		NA		NA	
Di-n-octyl phthalate	UG/L	ND	10	NA		NA		NA	
Benz(b)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benz(k)fluoranthene	UG/L	ND	10	NA		NA		NA	
Benz(a)pyrene	UG/L	ND	10	NA		NA		NA	
Indeno(1,2,3-cd)pyrene	UG/L	ND	10	NA		NA		NA	
Dibenz(a,h)anthracene	UG/L	ND	10	NA		NA		NA	
Benz(ghi)perylene	UG/L	ND	10	NA		NA		NA	
2,6-Dinitrotoluene	UG/L	ND	10	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-d4	z	92	50-200	NA		NA		NA	
Naphthalene-d8	z	93	50-200	NA		NA		NA	
Acenaphthene-d10	z	91	50-200	NA		NA		NA	
Phenanthrene-d10	z	94	50-200	NA		NA		NA	
Chrysene-d12	z	87	50-200	NA		NA		NA	
Perylene-d12	z	102	50-200	NA		NA		NA	
Nitrobenzene-d5	z	88	37-120	NA		NA		NA	
2-Fluorobiphenyl	z	97	47-120	NA		NA		NA	
p-Terphenyl-d14	z	120	31-154	NA		NA		NA	
Phenol-d3	z	36	10-110	NA		NA		NA	
2-Fluorophenol	z	53	10-120	NA		NA		NA	
2,4,6-Tribromophenol	z	108	41-149	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

14/35

Date: 01/29/2004  
Time: 11:58:39

ALLIED WASTE - WESTLAKE LANDFILL (MD)  
Westlake Landfill  
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank AU4-0408 A480482601							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Phenol	UG/L	34	10	NA		NA		NA	
Bis(2-chloroethyl) ether	UG/L	85	10	NA		NA		NA	
2-Chlorophenol	UG/L	81	10	NA		NA		NA	
2-Methylphenol	UG/L	81	10	NA		NA		NA	
2,2'-Oxybis(1-chloropropane)	UG/L	86	10	NA		NA		NA	
4-Methylphenol	UG/L	77	10	NA		NA		NA	
N-Nitrosodi-n-propylamine	UG/L	93	10	NA		NA		NA	
Hexachloroethane	UG/L	65	10	NA		NA		NA	
Nitrobenzene	UG/L	89	10	NA		NA		NA	
Isophorone	UG/L	92	10	NA		NA		NA	
2-Nitrophenol	UG/L	93	10	NA		NA		NA	
2,4-Dimethylphenol	UG/L	96	10	NA		NA		NA	
Bis(2-chloroethoxy) methane	UG/L	92	10	NA		NA		NA	
2,4-Dichlorophenol	UG/L	99	10	NA		NA		NA	
Naphthalene	UG/L	86	10	NA		NA		NA	
4-Chloroaniline	UG/L	97	10	NA		NA		NA	
Hexachlorobutadiene	UG/L	76	10	NA		NA		NA	
4-Chloro-3-methylphenol	UG/L	100	10	NA		NA		NA	
2-Methylnaphthalene	UG/L	92	10	NA		NA		NA	
Hexachlorocyclopentadiene	UG/L	45	24	NA		NA		NA	
2,4,6-Trichlorophenol	UG/L	100	10	NA		NA		NA	
2,4,5-Trichlorophenol	UG/L	100	10	NA		NA		NA	
2-Chloronaphthalene	UG/L	94	10	NA		NA		NA	
2-Nitroaniline	UG/L	100	50	NA		NA		NA	
Dimethyl phthalate	UG/L	100	10	NA		NA		NA	
Acenaphthylene	UG/L	98	10	NA		NA		NA	
3-Nitroaniline	UG/L	110	50	NA		NA		NA	
Acenaphthene	UG/L	97	10	NA		NA		NA	
2,4-Dinitrophenol	UG/L	100	50	NA		NA		NA	
4-Nitrophenol	UG/L	ND	50	NA		NA		NA	
Dibenzofuran	UG/L	97	10	NA		NA		NA	
2,4-Dinitrotoluene	UG/L	100	10	NA		NA		NA	
Diethyl phthalate	UG/L	100	10	NA		NA		NA	
4-Chlorophenyl phenyl ether	UG/L	97	10	NA		NA		NA	
Fluorene	UG/L	100	10	NA		NA		NA	
4-Nitroaniline	UG/L	110	50	NA		NA		NA	
4,6-Dinitro-2-methylphenol	UG/L	110	50	NA		NA		NA	
N-nitrosodiphenylamine	UG/L	97	10	NA		NA		NA	
4-Bromophenyl phenyl ether	UG/L	100	10	NA		NA		NA	
Hexachlorobenzene	UG/L	100	10	NA		NA		NA	
Pentachlorophenol	UG/L	120	50	NA		NA		NA	
Phenanthrene	UG/L	100	10	NA		NA		NA	
Anthracene	UG/L	100	10	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

15/3

Date: 01/29/2004  
Time: 11:58:39

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Rept: ANU526

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A04-0408 A4B0482601							
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Di-n-butyl phthalate	UG/L	100	10	NA		NA		NA	
Fluoranthene	UG/L	100	10	NA		NA		NA	
Pyrene	UG/L	110	10	NA		NA		NA	
Butyl benzyl phthalate	UG/L	110	10	NA		NA		NA	
3,3'-Dichlorobenzidine	UG/L	110	20	NA		NA		NA	
Benzo(a)anthracene	UG/L	100	10	NA		NA		NA	
Chrysene	UG/L	95	10	NA		NA		NA	
Bis(2-ethylhexyl) phthalate	UG/L	100	10	NA		NA		NA	
Di-n-octyl phthalate	UG/L	110	10	NA		NA		NA	
Benzo(b)fluoranthene	UG/L	100	10	NA		NA		NA	
Benzo(k)fluoranthene	UG/L	100	10	NA		NA		NA	
Benzo(a)pyrene	UG/L	100	10	NA		NA		NA	
Indeno[1,2,3-cd]pyrene	UG/L	110	10	NA		NA		NA	
Dibenzof[a,h]anthracene	UG/L	100	10	NA		NA		NA	
Benzo(ghi)perylene	UG/L	120	10	NA		NA		NA	
2,6-Dinitrotoluene	UG/L	100	10	NA		NA		NA	
IS/SURROGATE(S)									
1,4-Dichlorobenzene-04	X	94	50-200	NA		NA		NA	
Naphthalene-08	X	95	50-200	NA		NA		NA	
Acenaphthlene-010	X	94	50-200	NA		NA		NA	
Phenanthrene-010	X	92	50-200	NA		NA		NA	
Chrysene-012	X	92	50-200	NA		NA		NA	
Perylene-012	X	97	50-200	NA		NA		NA	
Nitrobenzene-05	X	89	37-120	NA		NA		NA	
2-Fluorobiphenyl	X	98	47-120	NA		NA		NA	
p-Terphenyl-014	X	109	31-154	NA		NA		NA	
Phenol-05	X	36	10-110	NA		NA		NA	
2-Fluorophenol	X	52	18-120	NA		NA		NA	
2,4,6-Tribromophenol	X	109	41-149	NA		NA		NA	

NA = Not Applicable ND = Not Detected

SIL Buffalo

16/35

Date: 01/29/2004  
Time: 11:58:43

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
ALLIED - DIESEL RANGE ORGANICS - METHOD 8015B - N

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Method Blank A04-0408	A480482903						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Diesel Range Organics SURROGATE(S)	MG/L	ND	0.50	NA		NA		NA	
<i>o</i> -Terphenyl	%	70	27-153	NA		NA		NA	

NA = Not Applicable ND = Not Detected

STL Buffalo

17/35

Date: 01/29/2004  
Time: 11:58:43

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
ALLIED - DIESEL RANGE ORGANICS - METHOD 80156 - V

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Matrix Spike Blank A04-0408 A4B0482901	Matrix Spike Blk bup A04-0408 A4B0482902						
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Diesel Range Organics	MG/L	1.1	0.50	1.5	0.50	NA		NA	
SURROGATE(S)	%	61	27-153	80	27-153	NA		NA	
o-terphenyl									

NA = Not Applicable ND = Not Detected

SIL Buffalo

18/35

Date: 01/29/2004  
Time: 11:58:47

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
WET CHEMISTRY ANALYSIS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	Method Blank A04-0408	A4B0481902	Method Blank A04-0408	A4B0494802				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Total Dissolved Solids	MG/L	ND	10	NA		NA		NA	
chloride	MG/L	NA		ND		NA		NA	
fluoride	MG/L	NA		ND		NA		NA	

NA = Not Applicable    ND = Not Detected

STL Buffalo

19/35

Date: 01/29/2004  
Time: 11:58:47

ALLIED WASTE - WESTLAKE LANDFILL (MO)  
Westlake Landfill  
WET CHEMISTRY ANALYSIS

Rept: AN0326

Client ID Job No Sample Date	Lab ID	LCS A04-0408	A4B0481901	LCS A04-0408	A4B0494801				
Analyte	Units	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit	Sample Value	Reporting Limit
Total Dissolved Solids	MG/L	509	10	NA	9.6	NA	NA	NA	NA
Chloride	MG/L	NA		0.50	0.050	NA	NA	NA	NA
Fluoride	MG/L	NA		0.96		NA		NA	

NA = Not Applicable    ND = Not Detected

STL Buffalo

20/35

Date : 01/29/2004 11:58:55  
Job No: A04-0408

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AN0364

Client Sample ID: S Blank  
Lab Sample ID: A4B0482602

Matrix Spike Blank  
A4B0482601

Analytic	Units of Measure	Concentration		X Recovery	QC LIMITS
		Blank	Spike	Blank Spike	
		Spike	Amount		
<b>METHOD 8270 - ICL SEMI-VOLATILE ORGANICS</b>					
Aceanaphthalene	UG/L	96.6	100	97	52-120
Aceanaphthylene	UG/L	98.4	100	98	57-120
Anthracene	UG/L	101	100	102	71-126
Benz(a)anthracene	UG/L	104	100	104	74-133
Benz(b)fluoranthene	UG/L	100	100	101	62-138
Benz(k)fluoranthene	UG/L	104	100	104	63-136
Benz(ghi)perylene	UG/L	117	100	117	42-160
Benz(a)pyrene	UG/L	102	100	103	72-126
Bis(2-chloroethoxy) methane	UG/L	92.0	100	92	57-120
Bis(2-chloroethyl) ether	UG/L	85.4	100	85	47-120
2,2'-Oxybis(1-Chloropropane)	UG/L	86.4	100	86	39-120
Bis(2-ethylhexyl) phthalate	UG/L	104	100	104	64-185
4-Bromophenyl phenyl ether	UG/L	104	100	104	66-130
Butyl benzyl phthalate	UG/L	107	100	108	64-144
4-Chloraniline	UG/L	97.3	100	97	57-125
4-Chloro-3-methylphenol	UG/L	104	100	104	53-123
2-chlorophthalene	UG/L	93.7	100	94	49-112
2-Chlorophenol	UG/L	81.2	100	81	40-120
4-Chlorophenyl phenyl ether	UG/L	97.2	100	97	59-125
Chrysene	UG/L	95.1	100	95	76-133
Dibenz(a,h)anthracene	UG/L	101	100	102	50-148
Dibenzo-furan	UG/L	96.9	100	97	59-120
Di-n-butyl phthalate	UG/L	105	100	106	68-156
3,3'-Dichlorobenzidine	UG/L	112	100	112	63-160
2,4-Dichlorophenol	UG/L	99.2	100	99	57-120
Diethyl phthalate	UG/L	102	100	102	68-160
2,4-Dimethylphenol	UG/L	96.4	100	96	53-124
Dimethyl phthalate	UG/L	102	100	102	70-132
4,6-Dinitro-2-methylphenol	UG/L	111	100	112	56-144
2,4-Dinitrophenol	UG/L	102	100	103	32-147
2,4-Dinitrotoluene	UG/L	100	100	100	52-130
2,6-Dinitrotoluene	UG/L	102	100	102	74-135
Di-n-octyl phthalate	UG/L	112	100	112	68-133
Fluoranthene	UG/L	105	100	106	67-134
Fluorene	UG/L	100	100	101	61-123
Hexachlorobenzene	UG/L	101	100	101	39-132
Hexachlorobutadiene	UG/L	76.0	100	76	10-120
Hexachlorocyclopentadiene	UG/L	44.6	100	45	4-120
Hexachloroethane	UG/L	65.4	100	65	10-120
Indeno(1,2,3-cd)pyrene	UG/L	112	100	112	52-148
Isophorone	UG/L	91.6	100	92	44-120
2-Methylnaphthalene	UG/L	92.1	100	92	41-120
2-Methylphenol	UG/L	81.3	100	81	28-125

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

21/35

STL Buffalo

Date : 01/29/2004 11:58:55  
Job No: A04-U408

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AN0364

Client Sample ID: S Blank  
Lab Sample ID: A4B0482602

Matrix Spike Blank  
A4B0482601

Analyte	Units of Measure	Concentration		X Recovery Blank Spike	QC LIMITS
		Blank	Spike		
<b>METHOD 8270 - ICL SEMI-VOLATILE ORGANICS</b>					
4-Methylphenol	UG/L	77.1	100	77	23-120
Naphthalene	UG/L	86.0	100	86	38-120
2-Nitroaniline	UG/L	105	100	105	59-153
3-Nitroaniline	UG/L	108	100	109	70-143
4-Nitroaniline	UG/L	111	100	111	71-142
Nitrobenzene	UG/L	89.1	100	89	38-120
2-Nitrophenol	UG/L	92.8	100	93	54-120
4-Nitrophenol	UG/L	47.0	100	47	7-120
N-nitrosodiphenylamine	UG/L	96.9	100	97	60-120
N-Nitroso-Di-n-propylamine	UG/L	92.8	100	93	37-120
Pentachlorophenol	UG/L	116	100	117	22-131
Phenanthrene	UG/L	105	100	106	72-128
Phenol	UG/L	34.3	100	34	12-149
Pyrene	UG/L	112	100	112	60-140
2,4,5-Trichlorophenol	UG/L	103	100	104	57-130
2,4,6-Trichlorophenol	UG/L	103	100	103	56-125

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

STL Buffalo

22/35

Date : 01/29/2004 11:58:58  
Job No: A06-0408

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AN0364

Client Sample ID: Method Blank  
Lab Sample ID: A4B0482903

Matrix Spike Blank  
A4B0482901

Matrix Spike Blk Dup  
A4B0482902

Analyte	Units of Measure	Concentration		Spike Amount	SBD	% Recovery			% RPD	QC LIMITS RPD	REC.
		Spike Blank	Spike Blank Dup			SB	SBD	Avg			
ALLIED - DIESEL RANGE ORGANICS - METHOD Diesel Range Organics	MG/L	1.08	1.47	1.50	1.50	72	98	85	30	30.0	53-162

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

STL Buffalo

23/35

Date : 01/29/2004 11:59:03  
Job No: A04-0408

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AN0364

Client Sample ID: Method Blank  
Lab Sample ID: A4B0481902

LCS  
A4B0481901

Analyte	Units of Measure	Concentration		X Recovery Blank Spike	QC LIMITS
		Blank	Spike Amount		
WEI CHEMISTRY ANALYSIS ALLIED - METHOD 160.1 - TOTAL DISSOLVE	MG/L	509.0	500.0	102	85-115

\* Indicates Result is outside QC Limits  
NC = Not Calculated ND = Not Detected

STL Buffalo

24/35

Date : 01/29/2004 11:59:03  
Job No: A04-0408

ALLIED WASTE INDUSTRIES  
WESTLAKE LANDFILL

Rept: AND364

Client Sample ID: Method Blank      LCS  
Lab Sample ID: A480494802      A480494801

Analyte	Units of Measure	Concentration		% Recovery Blank spike	QC LIMITS
		Blank Spike	Spike Amount		
WEI CHEMISTRY ANALYSIS					
ALLIED - 9056 CHLORIDE BY IC	MG/L	9.61	10.0	96	90-110
ALLIED - 9056 METHOD 9056 - FLUORIDE	MG/L	0.960	1.00	96	90-110

\* Indicates Result is outside QC Limits  
NC = Not Calculated   ND = Not Detected

STL Buffalo

25/35

Date: 01/29/2004  
Time: 13:59:09

ALLIED WASTE INDUSTRIES  
SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 1

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	PZ-302-A5 A04-0408 A4040801				
Sample Date	01/12/2004 13:00				
Received Date	01/15/2004 10:30				
Extraction Date	01/19/2004 07:00				
Analysis Date	01/26/2004 11:07				
Extraction HI Met?	YES				
Analytical HI Met?	YES				
Sample Matrix	WATER				
dilution Factor	1.0				
Sample wt/vol	1.055 LITERS				
% Dry					

NA = Not Applicable

SIL Buffalo

26/35

Date: 01/29/2004  
Time: 11:59:09

ALLIED WASTE INDUSTRIES  
GC SAMPLE CHRONOLOGY

Rept: AR0374  
Page: 2

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A04-D408 A480482601				
Sample Date					
Received Date					
Extraction Date	01/19/2004 07:00				
Analysis Date	01/23/2004 13:50				
Extraction HT Met?	-				
Analytical HT Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
% dry					

NA = Not Applicable

SIL Buffalo

27/35

Date: 01/29/2004  
Time: 11:59:09

ALLIED WASTE INDUSTRIES  
QC SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 3

METHOD 8270 - TCL SEMI-VOLATILE ORGANICS

Client Sample ID Job No & Lab Sample ID	\$ Blank A04-0408 A4B0482602				
Sample Date					
Received Date	01/19/2004 07:00				
Extraction Date	01/23/2004 14:17				
Analysis Date					
Extraction HI Met?	-				
Analytical HI Met?					
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0	LITERS			
% Dry					

28/35

NA = Not Applicable

SIL Buffalo

Date: 01/29/2004  
Time: 11:59:12

ALLIED WASTE INDUSTRIES  
SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 1

ALLIED - DIESEL RANGE ORGANICS - METHOD 8015B - W

Client Sample ID Job No & Lab Sample ID	PI-302-AS A04-0408 A4040802				
Sample Date	01/12/2004 16:10				
Received Date	01/15/2004 10:30				
Extraction Date	01/19/2004 07:00				
Analysis Date	01/20/2004 16:24				
Extraction HI Met?	YES				
Analytical HI Met?	YES				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.01 LITERS				
X Dry					

NA = Not Applicable

SIL Buffalo

29/35

Date: 01/29/2004  
Time: 11:59:12

ALLIED WASTE INDUSTRIES  
QC SAMPLE CHRONOLOGY

Rept: AN0374  
Page: 2

ALLIED - DIESEL RANGE ORGANICS - METHOD 8015B - V

Client Sample ID Job No & Lab Sample ID	Matrix Spike Blank A06-0408 A4B0482901	Matrix Spike Blk Dup A04-0408 A4B0482902			
Sample Date					
Received Date					
Extraction Date	01/19/2004 07:00		01/19/2004 07:00		
Analysis Date	01/20/2004 14:19		01/20/2004 14:50		
Extraction HT Met?	-		-		
Analytical HT Met?	-		-		
Sample Matrix	WATER		WATER		
Dilution Factor	1.0		1.0		
Sample wt/vol	1.0	LITERS	1.0	LITERS	
X Dry					

NA = Not Applicable

STL Buffalo

30/35

Date: 01/29/2004  
Time: 11:59:12

ALLIED WASTE INDUSTRIES  
OC SAMPLE CHROMATOLOGY

Rept #: AM0374  
Page: 3

ALLIED - DIESEL RANGE ORGANICS - METHOD 8015B - W

Client Sample ID Job No & Lab Sample ID:	Method Blank A04-U408 A480482903				
Sample Date					
Received Date					
Extraction Date	01/19/2004 07:00				
Analysis Date	01/20/2004 15:22				
Extraction HI Met?	-				
Analytical HI Met?	-				
Sample Matrix	WATER				
Dilution Factor	1.0				
Sample wt/vol	1.0 LITERS				
X Dry					

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NA = Not Applicable

STL Buffalo

Date: 01/29/2004 11:59:16  
Jobno: A04-0408

ALLIED WASTE INDUSTRIES  
SAMPLE CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THI	Analysis Date	AHT	Matrix
A4040804	PZ-302-AS	MG/L	Total Dissolved Solids	160.1	1.00	01/13/2004 10:40	01/15 10:30	NA	NA	01/16 13:00	Yes	WATER
		MG/L	Chloride	9056	1.00	01/13/2004 10:40	01/15 10:30	NA	NA	01/20 11:17	Yes	WATER
		MG/L	Fluoride	9056	1.00	01/13/2004 10:40	01/15 10:30	NA	NA	01/20 11:17	Yes	WATER

AHT = Analysis Holding Time Met  
THI = TCLP Holding Time Met  
NA = Not Applicable

STL Buffalo

32/35

Date: 01/29/2004 11:59:16  
Jobnet: A04-U408

ALLIED WASTE INDUSTRIES  
QC CHRONOLOGY

Rept: AN0369

Lab ID	Sample ID	Units	Analyte	Method	Dilution Factor	Sample Date	Receive Date	TCLP Date	THI	Analysis Date	AHT	Matrix
A4B0481902	Method Blank	MG/L	Total Dissolved Solids	160.1	1.00	-	- 10:30	NA	NA	01/16 13:00	Yes	WATER
A4B0481901	LCS	MG/L	Total Dissolved Solids	160.1	1.00	-	- 10:30	NA	NA	01/16 13:00	Yes	WATER
A4B0494801	LCS	MG/L	Chloride	9056	1.00	-	- 10:30	NA	NA	01/20 11:17	Yes	WATER
A4B0494802	Method Blank	MG/L	Fluoride	9056	1.00	-	- 10:30	NA	NA	01/20 11:17	Yes	WATER
		MG/L	Chloride	9056	1.00	-	- 10:30	NA	NA	01/20 11:17	Yes	WATER
		MG/L	Fluoride	9056	1.00	-	- 10:30	NA	NA	01/20 11:17	Yes	WATER

AHT = Analysis Holding Time Met  
THI = TCLP Holding Time Met  
NA = Not Applicable

STL Buffalo

33/35

## **Chain of Custody**





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## FIELD INFORMATION LOG Part 1

Facility: West Lake OUZ  
Location: Bridgeton, MO.  
Sample Matrix: Groundwater

Sample Point ID: PZ 302 AI

Sampler(s): Shane Tamborski

Tim Erving

Top of Casing (ft. msl) 451.15

**PURGE INFORMATION**

Method of Wall Repair: *Disinfect* *Paint*

Dedicated Equipment: Yes  No

Date/Time Initiated: 12/11/03 1450

Casing Diameter (inches): 2"

Initial Water Level (feet): 23.06

One Casing Volume (gal): 1vol = 3.44 Svol = 1

Initial Water Level Previous Event (feet): N/A

One Casing Volume Previous Event (gal): 841

Ground Water Elevation (ft, msl): 728.09

Total Volume Purged (gal): 78 19

Ground Water Elevation Previous Event (ft, msl): 114.6

Purged Dry?: Yes        No

Well Total Depth (feet): 1911'

Water Level after Purge (feet): 12-11-03 1518

SOURCE DATA



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## FIELD INFORMATION LOG Part 2

### SAMPLING INFORMATION:

Sampling Method: Disposable Bailer

Water Level @ Sampling (ft): 23.08

Parameters: Annual: \_\_\_\_\_

Semi-Annual:

Sample Point ID: P2 302 AI

Dedicated: Yes \_\_\_\_\_ No

Well Collection Sequence #: 3 of 5

Quarterly: \_\_\_\_\_ Monthly: \_\_\_\_\_ Other: \_\_\_\_\_

### SAMPLE DATA:

Time & Date	Sample Rate	Temp (°C)	pH (std units)	Conductivity (µS = umhos/cm)	Turbidity (NTU)	Other	Notes
13 1525 12-11-03	VOC: Other:	12.9	6.9	1203	6.2		

### INSTRUMENT CALIBRATION DATA:

Beginning of day: (time) 0850 4

End of day: (time) 1730

Turbidity Serial #: LaMotte 2020

pH Serial #: pH Testr 2 waterproof

Conductivity Serial #: TDS Testr 20

Purging Event		Sampling Event			
Beginning of day	End of day	NTU std=	Beginning of day	End of day	NTU std=
		1,10		0.96/11	1,10
1428		uS std= 1413		1401	uS std= 1413
4.0		pH std = 4.0		4.1	pH std = 4.0
7.0		pH std = 7.0		7.0	pH std = 7.0
10.0		pH std = 10.0		10.0	pH std = 10.0

Other Calibration: \_\_\_\_\_

### GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny 25°F

Sample Characteristics: clear

### COMMENTS AND OBSERVATIONS:

Field BIK @ 1520 VOC-VOA only - 4 bottles

Date: 12-11-03

By: Alane Embrey

Company: Herst & Associates, Inc.



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### FIELD INFORMATION LOG Part 1

Facility: West Lake Oil  
Location: Bridgeton, MO.  
Sample Matrix: Groundwater

#### PURGE INFORMATION

Method of Well Purge: Disposable Baile  
Date/Time Initiated: 12-12-03 1125  
Initial Water Level (feet): 23.29  
Initial Water Level Previous Event (feet): N/A  
Ground Water Elevation (ft, msl): 428.13  
Ground Water Elevation Previous Event (ft, msl): N/A  
Well Total Depth (feet): 24.44  
Well Total Depth Previous Event (feet): N/A

Sample Point ID: PZ 302-AS  
Sampler(s): Shane Tamborski  
Tim Ewing  
Top of Casing (ft, msl) 451, 42

Dedicated Equipment: Yes \_\_\_\_\_ No  Casing Diameter (inches): 2"  
One Casing Volume (gal): 1vol = .2    5vol = 1g  
One Casing Volume Previous Event (gal): \_\_\_\_\_  
Total Volume Purged (gal): , 2  
Purged Dry?: Yes  No \_\_\_\_\_  
Water Level after Purge (feet): Dry  
Date/Time Completed: 12-12-03 1136

PURGE DATA:

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Disposable Bailev

Water Level @ Sampling (ft): 23.19

Parameters: Annual: \_\_\_\_\_ Semi-Annual: X Quarterly: \_\_\_\_\_ Monthly: \_\_\_\_\_ Other: \_\_\_\_\_

SAMPLE DATA:

Time & Date	Sample Rate	Temp (°C)	pH (std units)	Conductivity (uS = umhos/cm)	Turbidity (NTU)	Other	Notes
1100 12-15-03	VOC: Other:		No readings collected @ sampling				

INSTRUMENT CALIBRATION DATA:

Beginning of day: (time) 0810

End of day: (time) 1705

Turbidity Serial #: Le Motte 2020

pH Serial #: pH Testr 2 waterproof

Conductivity Serial #: TDS Testr 30

Purging Event		Sampling Event	
Beginning of day	End of day	Beginning of day	End of day
1.2/10	10.63	NTU std= 1,10	NTU std=
1432	1188 @ 13.6 °C	uS std= 1413	uS std=
4.0	4.3	pH std = 4.0	pH std = 4.0
7.0	6.7	pH std = 7.0	pH std = 7.0
10.0	9.7	pH std = 10.0	pH std = 10.0

Other Calibration: No calibration #'s for 12/15/03 since no readings were collected.

GENERAL INFORMATION:

Weather Conditions @ Sampling: overcast 1 1/2 inches of snow on ground 35°F

Sample Characteristics: clear

COMMENTS AND OBSERVATIONS:

No parameters were taken at sampling due to the extremely low volumes.

4- VOC's - HCL

2- Gasoline Range organics - VOA's - HCL

1- 802 Plastic ICP Metals HNO3 preserved

Date: 12-15-03 By: Shane Tambada

Company: Herst & Associates, Inc.



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## FIELD INFORMATION LOG Part 1

Facility: West Lake Oil 2  
Location: Bridgeton, Mo.  
Sample Matrix: Groundwater

Sample Point ID: P2 303 A5  
Sampler(s): Shane Tamborski  
Tim Ewing  
Top of Casing (ft, msl) 453.18

**PURGE INFORMATION:**

Method of Well Purge: Disposable Bailes  
Date/Time Initiated: 12-12-03 1208  
Initial Water Level (feet): 25.19  
Initial Water Level Previous Event (feet): N/A  
Ground Water Elevation (ft, msl): 427.99  
Ground Water Elevation Previous Event (ft, msl): N/A  
Well Total Depth (feet): 28.02  
Well Total Depth Previous Event (feet): N/A

Dedicated Equipment: Yes \_\_\_\_\_ No  X  
Casing Diameter (inches): 2" \_\_\_\_\_  
One Casing Volume (gal):  $1\text{vol} = .46$   $5\text{vol} = 2.3$   
One Casing Volume Previous Event (gal): \_\_\_\_\_  
Total Volume Purged (gal): 6 \_\_\_\_\_  
Purged Dry?: Yes \_\_\_\_\_ No  X  
Water Level after Purge (feet): 25.13 \_\_\_\_\_  
Date/Time Completed: 12-12-03 1232

**PURGE DATA:**



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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Disposable Builer

Water Level @ Sampling (ft): 25.13

Parameters: Annual: \_\_\_\_\_ Semi-Annual: X

Sample Point ID: P2 303 AS

Dedicated: Yes \_\_\_\_\_ No X

Well Collection Sequence #: 4 of 5

Quarterly: \_\_\_\_\_ Monthly: \_\_\_\_\_ Other: \_\_\_\_\_

SAMPLE DATA:

Time & Date	Sample Rate	Temp (°C)	pH (std units)	Conductivity (uS = umhos/cm)	Turbidity (NTU)	Other	Notes
1235	VOC:	14.8	6.3	1357	86		
12-12-03	Other:						

INSTRUMENT CALIBRATION DATA:

Beginning of day: (time) 0810

End of day: (time) 1705

Turbidity Serial #: La Motte 2020

pH Serial #: pH Testr 2 Waterproof

Conductivity Serial #: TDS Testr 20

Purging Event			Sampling Event		
Beginning of day	End of day	NTU std=	Beginning of day	End of day	NTU std=
12/10	12/11	1,10	10,63	10,63	1,10
		NTU std= 1413 ST.			
1432		uS std= 1413	188 @ 13.6 °C		uS std= 1413
		uS std= 1413 ST.			
4.0		pH std = 4.0	4.3		pH std = 4.0
7.0		pH std = 7.0	6.7		pH std = 7.0
10.0		pH std = 10.0	9.7		pH std = 10.0

Other Calibration: \_\_\_\_\_

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny 30°F

Sample Characteristics: clear - black w/a few small floaters

COMMENTS AND OBSERVATIONS:

Petroleum odor and sheen on water  
VOC's effervesced - sent unpressured.

Date: 12-12-03 By: Shane Tamboli

Company: Herst & Associates, Inc.



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## FIELD INFORMATION LOG Part 1

Facility: West Lake O.W.F.  
Location: Bridgeton, MO.  
Sample Matrix: Groundwater

Sample Point ID: P2304 AI  
Sampler(s): Shane Tamborski  
Tim Ewing

**PURGE INFORMATION:**

Method of Well Purge: Bailey Disposable  
Date/Time Initiated: 12-11-03 1110  
Initial Water Level (feet): 26.09  
Initial Water Level Previous Event (feet): N/A  
Ground Water Elevation (ft, msl): 427.93  
Ground Water Elevation Previous Event (ft, msl): N/A  
Well Total Depth (feet): 52.08  
Well Total Depth Previous Event (feet): N/A

Dedicated Equipment: Yes \_\_\_\_\_ No X  
Casing Diameter (inches): 2"  
One Casing Volume (gal): 1vol = 4.2 Svol = 2  
One Casing Volume Previous Event (gal): \_\_\_\_\_  
Total Volume Purged (gal): 21  
Purged Dry?: Yes \_\_\_\_\_ No X  
Water Level after Purge (feet): 26.0  
Date/Time Completed: 12-11-03 1155

## PURGE DATA:

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FIELD INFORMATION LOG Part 2

SAMPLING INFORMATION:

Sampling Method: Disposable Bailev

Sample Point ID: PZ 304 AJ

Water Level @ Sampling (ft): 26.0

Dedicated: Yes        No X

Parameters: Annual: \_\_\_\_\_ Semi-Annual: X

Quarterly: \_\_\_\_\_ Monthly: \_\_\_\_\_ Other: \_\_\_\_\_

SAMPLE DATA:

Time & Date	Sample Rate	Temp (°C)	pH (std units)	Conductivity (uS = umhos/cm)	Turbidity (NTU)	Other	Notes
1200	VOC:	16.3	6.0	1838	10		
12-11-03	Other:						

INSTRUMENT CALIBRATION DATA:

0850 pH battery <sup>04 recalibrated</sup> Purging Event

Beginning of day: (time) 113 1139

Beginning of day	End of day	NTU std = 1, 10	Beginning of day	End of day	NTU std = 1, 10
1428		uS std = 1413		1401	uS std = 1413
4.0		pH std = 4.0		4.1	pH std = 4.0
7.0		pH std = 7.0		7.0	pH std = 7.0
10.0		pH std = 10.0		10.0	pH std = 10.0

End of day: (time) 1730

Turbidity Serial #: LaMotte 2020

pH Serial #: pH Testr 2 waterproof

Conductivity Serial #: TDS Tstr 20

Other Calibration:

GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny light breeze 30°

Sample Characteristics: clear

COMMENTS AND OBSERVATIONS:

Duplicate @ 1205 - one was had a bubble

Date: 12-11-03 By: Shane Taubendal

Company: Herst & Associates, Inc.



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## FIELD INFORMATION LOG Part 1

Facility: West Lake Landfill  
Location: Bridgeton, Mo.  
Sample Matrix: Groundwater

Sample Point ID: PZ 304 AS  
Sampler(s): Shane Tamborski  
Tim Ewing  
Top of Casing (ft, msl) 453.71

**PURGE INFORMATION:**

Method of Well Purge: Disposable Bailev  
Date/Time Initiated: 12-11-03 1248  
Initial Water Level (feet): 25.79  
Initial Water Level Previous Event (feet): N/A  
Ground Water Elevation (ft, msl): 427.92  
Ground Water Elevation Previous Event (ft, msl): N/A  
Well Total Depth (feet): 29.16  
Well Total Depth Previous Event (feet): N/A

Dedicated Equipment: Yes \_\_\_\_\_ No X  
Casing Diameter (inches): 2"  
One Casing Volume (gal): 1vol = ,55    5vol = 2.75  
One Casing Volume Previous Event (gal): \_\_\_\_\_  
Total Volume Purged (gal): 3  
Purged Dry?: Yes \_\_\_\_\_ No X  
Water Level after Purge (feet): 25.79  
Date/Time Completed: 12-11-03    1305

PURGE DATA;



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Personal Attention

HERST & ASSOCIATES, INC. ®

## FIELD INFORMATION LOG Part 2

### SAMPLING INFORMATION:

Sampling Method: Disposable Buoy

Water Level @ Sampling (ft): 25.79

Parameters: Annual: \_\_\_\_\_ Semi-Annual:  Quarterly: \_\_\_\_\_ Monthly: \_\_\_\_\_ Other: \_\_\_\_\_

### SAMPLE DATA:

Time & Date	Sample Rate	Temp (°C)	pH (std units)	Conductivity (uS = umhos/cm)	Turbidity (NTU)	Other	Notes
1310 12-11-03	VOC: Other:	15.8	6.6	2450 uS	22		

### INSTRUMENT CALIBRATION DATA:

Beginning of day: (time) 0850 4/11/99

End of day: (time) 1730

Turbidity Serial #: La Motte 2020

pH Serial #: pH Testr 2 waterproof

Conductivity Serial #: TDS Testr 20

Purging Event		Sampling Event	
Beginning of day	End of day	Beginning of day	End of day
		NTU std = 1, 10	0.96/11
1428		uS std = 1413	1401
4.0		pH std = 4.0	4.1
7.0		pH std = 7.0	7.0
10.0		pH std = 10.0	10.0

Other Calibration: \_\_\_\_\_

### GENERAL INFORMATION:

Weather Conditions @ Sampling: Sunny light Breeze 30°

Sample Characteristics: clear

### COMMENTS AND OBSERVATIONS:

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\_\_\_\_\_  
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Date: 12-11-03 By: Alice Taftada

Company: Herst & Associates, Inc.